THE LOST PLANET The Lost Planet

By PAUL DALLAS

DALLAS

WINSTON

A SCIENCE FICTION NOVEL

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The Lost Planet

By PAUL DALLAS

Jacket illustration by Alex Schomburg

Will a sunt r or "Rockets a-a-away!" treeted XL35 rocket ship screaming into space toward the lost planet of Poscida. Space doctor Bill Hutson and two friends have courageously taken off on a forbidden flight in their cagerness to help prevent a catastrophic war between Earth and Poscida.

On an earlier visit to the lost planet to do medical research, Dr. Hudson had learned to respect the intelligent but octopus-like Poseidans and had developed a lasting friendship with Kutt, the Leader's son.

When the bond of good will between the two works reaches the breaking point, Bill devices a startling plan to outwit the small group of unacrupations men from both planets who are behind the mostrous scheme to were peareful relations. In carrying out his counterrelations, in carrying out his countercourier Gruff Hughes of Planet Earth Forces, Bill rights the universe in a truly dramatic manner.

Here is a tale full of intrigue, suspense and decds of daring spacemen. It explores the realms of medicine and science in outer space and reveals some lawinating probabilities. More than this, however, the story conveys to the reader an underlying theme intended to promote windom, fellowship and friendship among worlds and their peoples.

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The Author

Part DALAS was form in Pymouth, England, and now lives in the United Matters Before settling down in a small four in New York State: to write his many currers in several countries. After schooling in England, France, Malta and the United States, he was employed blott eicht, diving instructor, saloman and window displayman. The unawain blott eicht, diving instructor, saloman and simolow displayman. The unawain barkground equipped Mr. Dallas with barkground equipped Mr. Dallas with works.

The author says he wrote Ture Lorr PLANT: because: "A love of the sea, kindled in many a youhful breast by the highly imaginative sally yaras related by seamen of the 15th century, contributed to the discovery of the New World; today's young minds must be helped to chart a course toward the New Worlds of outer space."

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THE JOHN C. WINSTON COMPANY Philadelphia and Toranto





The Lost Planet

A Science Fiction Novel

The Lost



By PAUL V. DALLAS

Jacket and Endpaper Designs by Alex Schomburg



Cecile Matschat, Editor Carl Carmer, Consulting Editor THE JOHN C. WINSTON COMPANY Philadelphia • Toronto

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PAUL V. DALLAS

FIRST EDITION

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To

PAUL V. MIFSUD, JR.

The Most Valuable Cargo

It is soon so much more today than those who came before us that you could make even the wisted of the gaps with the wonders that are commonplace toss. Architeneds would marzer in disbelled at our photographic telescopes, and Pasture would be overwhelmed by periodilin. Show Julius Caesar a tank, or Sir Francis Drake a modern butlehåly, and you could castly convince them that you were a god we would have need of the marcel is which we take such price. Those who come after us will, no doubt, look at us with some amsement and declars. Twoder what people did weekends before they could kew Plante Earth. Jife must have been very bottary?

Of course it wasn't boring, because we were planning the takeoff into space. If we hadn't thought about it and planned it, people wouldn't be spending their weekends on distant planets.

In thinking and planning space travel, we are guided by the knowledge carefully gathered and

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stored by all men from the beginning of time, but then we must dart forward and add something new to this knowledge, for if we did not dare to leap ahead with our minds, we would remain earthbound forever.

If we could gather all the scientists who were allwe two hunded years ago into one large room and all today's scientists into another, we could perform an interesting experiment. We would finst enter the room with the scientists of two hundred years ago and ask the men assembled there only one question. "Centhemem," we would ask, "will the atom ever be split?" Then we would eask, "will the atom ever be split?" Then we would eask question there. "Centhemen, will man ever travel at the speed of light?"

The chances are that we would receive much the same answer from both groups. The majority would give a resounding 10%. Some would set basily about proving that it could never be done. A few would say something like this: 'It certainly can't be done today, and everything we know now seems to point to the fract that it can never be done. But it seems foolish, in the light of what we have already accomplicated, and the oblive that anything is impossible.

So we live, you might say, in a room whose walls are our imagination. If we have a very limited imagination, our room is a small one; if our imagination soars to the farthest reaches, and beyond, our room becomes as large as all creation.

What the mind of man can imagine, it has been said, man can do. This is proved by the fact that reality never lags very far behind the mere idea. When man imagined flying like a bird, be built the airplane. When he conceived the idea of swimming like a fish rather than just floating like a log, he built the submarine. Now man is gazing at the skies and imagining soaring through space like a comet. Can we believe that this reality is very far awav?

Most astronautical authorities believe that the first man to set foot on the Moon has already been born. Who is he? We cannot, of course, tell you exactly who he is and call him by name, but there are two things about him of which we can be relatively sure: he is young, he has vision and imagination.

In envisioning flight into space, then, we should be guided by, but not encessarily limited to, certain principles. Following that line of reasoning let us up to answer that question, Will man ever travel at the speed of light, 186.284 miles per second? It is, of corrora, a question that camot be narwered by a flat yee on no. But since man is continuously moving forward, is in tot dilicat to believe that some speed, short of instantaneous transference, will someday be reached where man will stop short and say. Well, that's it. In not going to try to go any faster? Let our imaginations take it from there, guided by principles established by no less an authority than the late Dr. Albert Enstein in his theory of relativity.

As we approach half the speed of light, Dr. Einstein tells us, time starts to play tricks. It seems to stretcb. It stretches only for the people or objects traveling at this speed, so that if you spent one minute by your watch traveling at half the speed of light, the people you left behind would have seen more than a minute recorded on their watches.

This stretching of time increases as your speed increases, or if you spent an hour, by your watch, traveling at 182,000 miles per second, almost five and a half hours would have chapsed on Earth There would have been nothing wrong with your watch, because when you got hack, supposing you had speat one hour away traveling at his speed, you would actually be just one hour older, while everybody you left behind would be almost five and a half hours older. You can imagine what effect his would have if you straved up at that speed for a your or two! If you increased your speed a little, to the ceast speed of light, time would stand still for you so that you would return no older than you were when you left.

Since this little trick played by time at high speeds is not in the real of more imagination but rather in the field of pure science, you can see how you have to let your imagination go just to cath up with what is already known—yet much remains to be explored. The entire universe and the galaxies beyond are awaiing your arrival and the arrival of others like you. As time is measured in relation to the yeas of time, you are ready, with finger poised, to press the botton that will send your share screaming, into space. Before you press that button, let us take a little time out for a short thought.

When you get to some different planet, what will

you have brought with you? Food and clothing and advanced scientific equipment, as well as everyday wooders, such as the flashlight and the movie camera, of correst, but will you also bring greed and suspicion? Or will you bring wisdom and friendship? Think of this for a minute, because one thing you can be sure of, fair play and friendship can never be advanced by scientific development. You alone control this, and your state of mind may be the most valuable cargo you carry into space.

Now let us look into the future, thrilled by the thought that the first man ever to reach the Moon may be reading this book right now.

P. V. D.



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Chapter 1 A Memorable Christmas

Its Loss, lesizedy Christma dinner was over. There was a nonenertry selence. Bill Hudson, feeling pleasantly stuffed with good food, looked across the table at his best friend, Eddle Wathins. He winked and placed his hand over his stomach, holding it a few inclus away to indicate the size that he feft he should he after such a superb meal. At the head of the table, Chener Wathins, Eddvise father, placed his napkin on the table and regarded the two boys with an ansmed expression.

"Well, I daresay neither of you is in much danger of starving within the next few hours," he smiled.

"No, sir," Bill answered. "The way I feel, I don't think I'll need another mouthful of food all year."

"I won't cither," Eddie chimed in, forgetting his training and slouching a little in his chair. "From now on, food and I are no longer on speaking terms. It can ignore me and I will ignore it."

"Hah!" snorted his father. "Within a few hours, unless I miss my guess, both of you will be infiltrating the pantry line with a view to carrying out a flank attack on the remnants of that noble turkey."

"As a matter of fact, sir, you're probably right," Bill said. "I was speaking from a feeling of fullness, but if you were to judge my caloric intake in the light of my basic metabolism and the probable expenditure of energy..."

Eddic sighed and raised his hands in a mock gesture of despair. "Once a doctor, always a doctor," he intoned, "but since you don't graduate for another six months, we don't have to take your word for it, and I maintain that I shall never eat again."

The three of them laughed. Then the general, turning serious, said, "Bill, Ive been meaning to discuss your studies with you. You see, Eddie and I had cooked up a little surprise for you. You'll be graduating in a few months, and I understand that you will continue studying in order to specialize in space medicine. Isn't that right?"

"Yes, it is," Bill answered. "I believe the science of space medicine is becoming more important every day."

¹I agree,² General Watkins soid, ¹I agree completely. Not only because in it simpartant to the people who are traveling through the cosmos in everincreasing numbers but, ² here the general looked very serious and his voice took on an ennest quality, ² the event that we should be placed in the position of having to defend our planet against an aggression from space . . . , well, in that event, your profession would be rital as well as important.²

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As he spoke, the general seemed to become preoccupied with thoughts of the military situation, and he absently deployed salt and pepper shakers with knives and forks on the table, setting up in front of him an imaginary military problem in the field. "It is a basic truism," he continued, "that wherever possible the best defense is a good offense. Now if we are attacked," and he brought a piece of silverware in toward the plate that was obviously representing Planet Earth, "not only do we defend the point under immediate attack but," and here several pieces were quickly moved from the plate Earth to the butter dish from which the attack had originated. "we immediately counterattack at the source of the aggression. After all, if you cut off the head, you have no need to fear the arms"

The two hoys were following his every word intently although they knew that the general vas not talking to them directly. He was, it seemed, thinking aloud. Suddenly he mapped out of his aborption and turned again to Bill. "To get back to what I was saying, Bill, Eddel and I had discussed a Christman present for yon, But now..., well," the ageneral spread his hands and shrugged andly, "the tension that has developed between Poscida and Eatth has reached a point where it is not safe to ..."

"Why, General," Bill said with a smile, "this Christmas dinner is the best present I could get. And having me stay here for the whole two weeks of vacation you've made me feel like I was part of the family. So please don't even mention a present." "I'm glad you feel like one of the family," General Watkins replied, "because throughout the years, watching you and Eddle grow up, I've always been glad you two remained such fast friends. You've been like brothers to each other—and as time goes on you'll see that friendships like this are the most important thing that can happen to anyone.

"The present about which I was talking was not a gift n the ordinary sense of the word. I had phanned something for after your graduation this summer. You'll have a ninety-day leave before you resume your work, and I had thought that if you spent it on possida, you could gain some firsthand experience of life other than on this planet, It would be of great benefit to you in your studies."

"Poseidal" Bill broke in excitedly, "How terrifici-That's pratically all I've been studying about this term. Since it's the only other planet on which inteligent life has been found, it's externely important to space-medicine studies, you know. But studying from a book and actually going three and sceing for myself are two different things! When I tell Professor Mercer...?

"Now hold on, Bdl . . . remember," the general interrupted the excitcle bay. Tasial *Hold* planned. As you know, I was stationed on Poseida for soveral years. I know the planet vell and I have very good connections among the Poseidans. I am well aware of what a trip there would do for you, which is why I was going to arrange to have you spend your vacation there. Unfortunately the situation is worsening at an

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alarming rate. Our relations with the Poseidans are deteriorating and I don't want to send you into an area of danger so far from Earth."

"I dort believe there's any danger," Bill said. "To begin with, nothing has happende between our planet and the Poseidane sceept a lot of ralk. Fve kept up with the news, and even though everyhold says things are getting bad between us I don't see why. They haven't done anything to us and we haven't done anything to them. We've neither one of us even threatened the other, so I can't see where things are getting to lad except that some poople say they're getting bad."

"I admire your spirit, son," the older man said, shaking his head, "but there is much that you are in no position to know. I'll admit no concrete incident has been proved against the Poseidans; on the other hand, our relations are definitely becoming more and more strained, and under such conditions a very real danger exists.

⁷If you were on Possida through my efforts, and war should break out," he closed his hand, making a quick fist, 'you would never have a chance-and I would never forgive myself. No, Bill, I'm afraid the trip will have to be postponed. Maybe in a year or two matters will straighten themselves out and then we shall see,"

It was obvious that no argument was going to prevail with Bill. This was an opportunity he hadn't even dared to dream about, and, once a trip into space had been waved under his nose, he wasn't going to be put off by the threat of a little thing like a spacial war. Of course, if Eddie's father definitely refused to go through with his original plans, nothing could be done, but Bill wasn't going to concede that the general couldn't be talked into it, without trying.

A more torrent of words would never work with the military man, so Bill decided to use logic. He shot Eddie a quick glance which pleaded for support and then turned to the general.

"General, there is no vay in which I can thank you for all you have done for me, and I how you're dong what you think is best for me when you say you're canceling your plana to send me to broacid, but..."." His votes trailed off as he stood up and gripped the back of his chair. "Let me show you how I look at it. First of all, if war should break out between now wouldn't if I would be a part of the Medical Corp; and subject to the orders of the Midlar Morp; and:

Ceneral Watkins gave Bill his full attention: he lifted the way the boy stuck to big guns and he lifted the way he presented his case. Striet logic was the multirary way. It was the way he had been trained and the way he had taught Eddia. Now Bill scened to be offering pure logic to support his argument. The general settled back, his chlowa resting on the arms the work of the one of the ways faid themselves on ing across the table. That is correct, of course," he said evenly.

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"Next," Bill continued, "if war should not break out within three months after the start of June, there's no question about my safety, right? Even if I go to Poseida, I would be back before war started, wouldn't P''

"That also is correct," intoned the general. He couldn't quite see what point Bill was leading up to and he was curious to learn how these innocent little statements would prove or disprove his case.

"Well, then," said Bill, and by the triumphant look on his face, both Eddle and his father knew that icoconclusion was about to be delivered, "it follows that the only situation which worries you is that war might break out between Poseida and Earth within the innety days immediately following next june the first"

General Watkns was disappointed. Ite hal expected a stronger argument. Albohogh he in no way wanted to place Bill in jopyardy, he lad lalf-hoped that the young medleal student could convince him that he is fears were exaggerated. Instead, all Bill hal done was to state three quite dovines fattes which no only did not change the situation but which were, indeed, the very basis for reconsidering the original plan. "Naturally, that is the situation which worries me. Since it is earthy possible a var well begin within that period, it would be fonduardy for me to place you where there would be no possibility of survival."

"Ah, but, General, look at the other side." Bill smiled a little slyly, "It is certain I would be involved in any case. Having specialized in space medicine, I would probably be assigned to any of our troops involved in an attack through space. So I would wind up in very much the same position with one big difference: my first excursion into space would then be under combat conditions, with no previous experience. At least if 1 had some experience, no ratter how little, my chances for survival would be that much greater. Remember, my field is medicine. Even if I were captured at the outset, I would prohably be of great help to any of our men then prisone."

General Watkins smiled. My boy, 'over in the wrong profession. You should have taken up law. Yestir, you'd make a gool lawyer. As a matter of fact, there is a lot in what you say." He rubbed his chin speculatively and stared at the tablecioh in front of him. There is no question but that if you are to be involved in special condite, experience gained from travel and conditions in outer space would be invaluable... and yet..."

Edde answered Bulf silent plea by chiming in, "He's right, Dad, when you look at it that vay, it's just the three months he would actually be on Poseida which would be dangerous. Anytime after that, if anything should happen, he'd be in a much better potition. He'd know what he was up against. He'd probably get quick permotion on the basis of his experience. If there were no war, his postgraduate work would be hebed."

Eddle's father was faced with a decision. These two boys would keep hammering away at him, each supporting and adding to the other's argument, until he handed down a ruling. He had been trained to make

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decisions, and in time of comhat his decisions would mean the cratin death of many mean A, good decision would keep casualities to a minimum, but calculated risks were a part of his job. The decision he now had to make risked only one file—but twas one that was important to his son and to him. He cleared his throat and looked up to see both boys giving him their undivided attention. He could see Bill was hardly breathing. He was on anytos the decision.

"Bill, you know how I feel about you, and you know what Eddie thinks of you. Since you're so anxious to go and Eddie agrees with you, I won't stand in your way."

⁵Yippeel⁷ Bill burt out. Then, regaining a small amount of control, "Thank you, General. I fust know everything is going to be . . to be well just wonderful. I can't express it, but when I think of actually studying on Toseida, aseing it with my own eyes, and talking with their doctors and medical students, it's more than I can tell you."

"Don't try," said the general. He pushed his chair back and stood up. Eddic did the same, and the three of them walked into the living room. General Watkins faced both boys and put a hand on their shoulders.

"Tll make all the necessary arrangements, Bill," he promised. "You'll be staying with Major Keller-he's the senior medical officer at Earth Colony there and an old friend of mine. Your trip will be strictly unofficial but you will travel as a military dependent so that your clearance will be in order."

"Thanks for doing it, Dad," Eddie said. "I'm just as

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happy as Bill is, only," his face clouded and assumed a disappointed expression, "only I wish I had a good reason to go on a space flight."

"You'll get your chance, son," his father told him. "As an officer in the Planet Earth Forces, you will do a tour of duty on Poseida."

"I know, but when I graduate I'll be a cadet for a year, and it may be several years after that before I get a chance really to travel. Oh, well, at least I can get firsthand reports from Bill." He turned to his fired. "Il you don't write every week and tell me all about Poseida, I'll send a special person-to-person destruction missife turned just to you."

"Don't worry, I'll keep in constant touch with you. I hope you both understand how grateful I feel," Bill replied.

"There, there," staft the general, "don't say another word; it's all stelled. You graduate on June first and that afternoon you will take off for Possida. When the details are all arranged, ITI see that you are notified. Now you boys will have to excuse me. There are some papers waitling in the study that don't consider even Christmas Day a holday." With that he turned and strode from the room.

Bill lay on top of his bed in the room he shared with Eddle. He was already wearing his pajamas, and he watched as his friend hung up the smart blue uniform with the gold P/E (for Planet Earth) patch at the shoulder. It was the last night of their Christmas vacation. Tomorrow he would be heading back to medical

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school for flow months of intensive study. For the first time in his like led dirk feet at all sopry to see vacation come to an end. Each new day that went by brought him one day closer to his trip to Poseida. It to told himself that when he got back to school he would not allow himself even to think about it, because the very idea that he would soon be hunting through the vast much him dirgs. The would study and keep his mining much him dirgs. The would study and keep his mining stretch on his work. Time would stip by faster and the looked-for day would arrive somer.

Eddie had washed his hands and face and had put on his pajamas. He sat on the edge of his hed, separated from Bill's by the night table that stood between the bed." Bill," he started hesitandy, "I know how anxious you are to go to Posseida, and don't think I wouldn't like to be going myself... but do you think it's wise? I'd hate to have anything happen to you."

Bill knew that his friend spoke, not because he thought he could change Bill's mind, but hecause he felt a genuine concern. Bill was touched. "Nothing's going to happen," he said. "You know . . . I've never been convinced that the Poscidans have any designs on us. 1 don't see what they could hope to gain by starting trouble."

"I don't know what their aims are," Eddie answered, "but all the same, a lot of very funny things are going on. Frankly I just wish they would start something." He stood up and pounded his fist into his hand. He walked over and stood at the foot of Bill's bed, looking down at him. He seemed to grow angyr. Tm getting tired of not knowing whether we're supposed to treat them as friends, shoot them on sight, or stay on this seesaw. Td just as soon they did make a move, so we could blast them and get it over with. I never did fully trust those Poseidan creatures. How can you warm up to an octopus with six legs that talks like a person?

"Poseidans are not octopuses, as you call them. They look like them, it's true, but they're every bit as intelligent as we are. As far as I'm concerned, I don't care much what sort of body the mind is housed in, if it's a good mind."

"Yes, but if that mind is planning your destruction . . . "

"That hasn't been proved vet," Bill interrupted.

"Well it's been pretty nearly proved. After all, the heads of the Government of Planet Earth must know things we don't know, and they're quite jittery about something, so they must have made up their minds."

"Exactly what I mean," Bill returned. "If they had made up their minds, we'd be at war right now. Since they haven't decided, even with all their inside knowledge, how can you say you *know* the Poseidans plan to destroy us? Anyway, I intend to find out all I can while I'm there. I wouldn't miss this opportunity for anything."

"I can see nothing's going to stop you, and I guess you know how much I envy you. Of course I'm looking forward to spending my vacation at Military Headquarters with my father. It will be interesting. A Memorable Christmas

meeting all the brass and seeing how they operatebut I sure would like to travel into space. Think of it, Bill, four billion miles away. A completely different planet. And you're going there and see how they live. Oh, well, I'll probably have to come and rescue you."

"If it ever comes to that," Bill said with a smile, "don't forget to bring your father along. Somehow I'd feel a little safer if General Watkins were directing my rescue."

"Hahl" snorted Eddie. "Think I couldn't lead a rescue squad myself? Why, in our final field tests, I thought up and executed a maneuver that caught the 'enemy' colonel flatfooted. You know what he said? He said Dad would have been proud of me!"

Ten sure he would. Edile, and TI het you take his place soncedy? Bill said. Then, the excitement mounting within him, he gazed out the window into the distanc. "You how, it doesn't seem possible. As soon as this term is over 11 be way out in space, zooming through the heavens at a hundred thousand miles a second. In a way I wish I could travel on a military ship-twould be more exciting, and fatter, too. But believe me, I'd fly there in a washtub if I had to."

"You ought to be glad you're not asked to go on the XL-33, the way the Poseidans have been destroying all the XL models," said Eddie.

"We don't know for sure the Poseidans are doing anything to them," Bill broke in.

"I know, I know, Doctor," Eddie said, sarcasm heavy in his voice, "but when the first thirty-two ships in a row simply disappear in flight without a trace, and with no word of danger from the pilots who were the best men we had—I figure you can't call it mechanical failure or pilot erro."

"Anyway, I'm not traveling by anything faster than regular passenger service, and I can hardly wait."

Bill got to his feet and stood up next to Eddle. Ite knew he must avoid thinking too much about the trip or he would never be able to sleep, nor would he be able to get through the next few months. It esaid to Eddle, "Twe simply got to stop thinking about it, old boy, so just let me say thank you once more, and now let's get to bed. We both have a rough day ahead of us tomorrow."

He crossed the room and took a drink of ice vater from the pitcher on the dresser. As he started back, Eddle set down on the edge of his bed and hegan to take off his sloppers. His morements were deliberate, and it appeared to Bill that there was something on his mind. He placed his sloppers claborately on the floor, making them line up exactly, then adjusting them.

Finally he looked up. "Bill," he said, "I want to ask you something."

"Sure thing, what is it?"

Eddie hesitated. "Bill," he started again, "about the Promise. You remember, two years ago. Do you feel it still holds? I mean with us graduating soon, and you going away, do you figure it's still in effect?"

Bill looked squarely into Eddie's eyes and said seriously, "Like we said then, Ed, 'for as long as we A Memorable Christmas

live.' For my part, that's how I felt then and that's how I feel now. I know I'm going to meet a whole bunch of fellows, some of them great guys, no doubt —and so will you—but none of them will have shared these years with either of us, and our bond will laxt:

Eddie burst into a friendly grin and punched Bill on the arm. "I knew you'd feel that way, but I just wanted to hear you say it, you refugee from Mother Earth."

"So I said it. Now let's hit the sack while we can still get eight hours of shuteye." Bill tossed himself into his bed and scrambled under the covers. He reached out and turned out the light on the night table. "Good night, General," he called.

"Good night, Doctor," came the answer.

The room settled into silence, and in the minds of their respective occupants the beds became transformed into a mighty crushall tank and a sleek space craft.

Chapter 2 Tokeoff for Poseida

Int. HUDBON arrived at the spaceport with about forty-five minutes to spare. He checked in with Departures and had his papers cleared and baggage checked; then, still having a half hour to kill before boarding time, he made his way to the observation deck skirting the port.

It was gigantic, stretching as far as the eye could see, a huge when within whose circumference all contact with outer space was made. Just inside the rim the ground was divided into lots nearly laid out and adjaining each other. From his position on the observation deck, it seemed to Bill as if spokes had been started within the giant wheel, and had been stopped about a third of the way to the exact. Each of the lots formed by these speker contained a takeoff lower, place, suit each was manned by its twom ground enver. A ship could be completely rebuilt in any one of the machine shops which stood in every oil. Space travel was precision work, and no money or labor was spared by

Takeoff for Possida

to insure the safety of each flight. Indeed, so thoroughly were the ships overhauled between trips, that each one as it took off was practically new.

The vast, empty space in the center of the port was reserved for landings. As a craft came in, its tail rockets helching gases to show the descent, tractorcranes and limoustices would arabe eout from the proper to. The cranes would gantly ease the large hull into place on its craftle, and the passengers would disembark, to be whisked to Arrivals for clearance.

This was man's gateway to infinity, Bill thought, as he watched the scattered groups of busy port workers. From this plot of ground man could now jump to the outermost edge of his universe. And from there? Bill shivered a bit and looked at his watch. Not many minutes to go.

Checking his gate pass, Bill saw that his fight was scheduled from Lot #5.5 kine the boservation deck was at position "1" on the circle, Bill passed his eyes over the first three lots and focused on the fourth, about is hundried yarda ways. He coold tell immediately that this was his. The ferewish activity there made it stand apart from its neighbors. As he watched, the hangar does swung slowly goes and two tractorcranes emerged, pulling the enermous spaceful; monthly into the open. It was one its date, neuting in stacked in the loading area ware taken abound. Technicians swarmed over and into the site, hecking and rechecking every detail. Finally the cargo was all stowde any and Bill know the care weigh would nows. have received the last report from his squad, entered it on his tally sheet, signed it and handed a copy to the flight captain. The ship was cleared. The tractorcranes started to tow it toward the takeoff tower where it would receive its passengers.

Bill straightened up from the ralling on which he had been leaving, and went down the stain. He walked along the boardwalk circling the port and had just passed Lot $2\pi^2$ when the bullhors announced that Filght #328 for Postida was ready at Lot #5. It requested all passengers to report to the lot mediately. Bill maled a little inward smile. Thanks to his headstart, he could strail along as if he did this sort of thing every day of the year, and still he would be first abard.

At the entrance to Lot #5, he was met by a blueuniformed corporal of the Security detail, who respectfully asked for his papers. Returning the salute as casually as he could, Bill handed over his folio. The corporal glanced briefly over the papers, made an entry on his its and handed them back.

"Thank you, sir," he said. "I wish you a pleasant voyage, sir."

"Thank you, Corporal," Bill answered, trying, and almost succeeding, in concelling Bis excitement. He continued along the corridor which passed through the administration building, reached Lot #5 and emerged into the open. There, about a hundred yards way, by the ship, still on its side. He walked across to it and up the portable stairs which led to the passenger compartment. He was greeted at the

Takeoff for Poseida

entrance by the copilot and three general hands. The copilot welcomed him aboard and assigned him scat # 1. This turned out to be up front; just ahead of him was the retaining wall separating the passenger compartment from the control room.

All the scats faced the rear, so Bill settled himself comfortably and became interceted in looking over the passengers as they came aboard. Mostly businessmen and elerks returning to Possidia after their leaves. Any important diplomatic or military traveler wouldn't be on this passengers service flight. They would be on the high-speed Planet Earth Forces transports.

As Bill watched, a young man came through the doorway. He seemed a ycar or so older than Bill. He was slightly built, and he wore glasses. He had on a simple dark-blue uniform with a white stripe running along the shoulder, marking him a messenger in the Courier Corps. One of the general hands checked him aboard and led him to seat #2, right alongside Bill.

"Hi!" He greeted Bill with a friendly smile. "I guess you're going to be my seat buddy this trip."

"It looks that way," Bill replied, trying to sound as much like a seasoned space traveler as possible. "My name is Bill Hudson."

"Glad to mcet you; I'm Griff Hughes," said the messenger.

Bill looked over the newcomer as he went through the motions of preparing for a period of relaxation. He stowed his hand gear in the little box provided for that purpose on the wall overhead, unbuttoned his tunic and sat down with a faint air of boredom. Bill realized that his companion was not making his first trip into space, and he was glad to be lucky enough to have as his seat partner an experienced traveler who wasn't an old for.

When Griff had settled back, Bill turned to him and asked, "How many times have you been up?"

"Tve lost count," Griff and you been up ' condescension. "You see, I make the trip at least a couple of times a week, and I've heen in the corps for a little over a year and a half—so I just never kept track. This your first trip?"

Bill nodded. "It's something I've wanted to do for a long time but I never got the chance before. Tell me, is it ... I mean what's it like, the takeoff?"

"Oh, there's really nothing to it. Pretty soon the explain will give a litch welcoming talk and instructions to the passengers, and then well take off. You don't go skittering along the ground and you don't see anything, so you get a lit of the sensation of speed but you don't really feed. It. It's something like riding in those high-speed elevators. If the door were left open, you'd see the doors runking by and you'd think you were really racing, but when the door are closed, the only way you can tell you're traveling is by matching the little lights that let you know which foor you're passing."

Bill nodded, but he still felt a little puzzled. "I know what you mean," he said, "but this is so much faster I kind of thought . . . Well, anyway, I guess I'll be finding out for myself in a few minutes." He leaned back in his seat, and then a thought struck him and he sat upright again.

"Say," he said, "you must know Poseida pretty well by this time. What are Poseidans like? Can you actually make friends with them? Do they talk to you? Is it dangerous? I mean, is it safe to fraternize with them?"

Griff laughed. "Oh, brother!" he exclaimed. "Which comic books have you been reading? Why they're people, just like you or me!"

Somewhat embarnased, Bill realized that his flood of question smuth have made him seem pretty foolish to his companion, especially since obviously there had to be continuous intermingling between the Poseidans and the Earthmen in their Colony on Poseida. But looking forward to his first meeting with these creatures, Bill wanted to be briefed as to what to expect and what was expected of him in regard to behavior.

He was about to explain this when Griff beat him to it and said, "Hold everything. We're about ready to take off. The capitain is getting set to make his speech, and then we'll go. We'll have plenty of time to talk when we're spaceberne-so just sit tight and follow his directions."

This took Bill's mind off Posteida and focused it on the excitement of the moment. He looked around the interior of the ship and saw that the last passenger was in and seated in one of the widely spaced, fulllength arrachiats. The thick outer door swung closed on its hydraulic hinges, and a faint hum made itself heard over the small general noise of the passengers adjusting their positions, clearing their throats, talking among themselves. The pressure machinery was taking over; those on the ship had breathed their last of Planet Earth's fresh air until their return.

Suddenly a loudspeaker crackled to life and someone blew into a microphone, testing the sound system. As the noise was amplified, a voice came on.

This is Capatian Martin speaking, Welcome about: This fight will used in a few minutes, and for the basenfit of those of you who are making your first space trip. I vould like to familiarize you with certain procedures. Toward the rear of the cabin–that is, the end toward which you are facing–st the projectograph, sereen. Instructions to passengers will be written in the control room and flashed on the screen. At all times, when you hear this bell," at these words a bell sounded in the passenger compartnent, "look at this screen and follow its instructions at once. As soon as the takeoff has been accomplished and we are in tree flight, the television cameras will be switched to this screen so that points of interest may be observed.

"You are sitting on convertible seats, Just before takooff they will flatten out and become costs. The attendants will strap you to the costs and will unstrap you after takeoff. They will also attach metal soles to your shoes. These will be cantinuously magnetized during flight. While sitting, keep at least one foot on the floor at all times unless you are strapped in.

"There will be no smoking during takeoff. Remem-

ber wc will be tilted vertically, so that the takeoff will occur while you are all in a standing position. You may be uncomfortable for a few seconds, but in less than a minute you will be completely adjusted to the conditions.

"Please do not converse during the period of the takeoff. Again, let me ask you to give the board your attention whenever the bell sounds. Thank you, and let's all look ahead to a pleasant flight."

The loudspeaker fell silent, and Bill realized that the palms of his hands were damp. He wiped them with his handkerchief and replaced it in his pocket just as the bell sounded. His eyes immediately flashed obediently to the screen, where a sign appeared:

"Please hold your arms to your sides. Your seats are about to be converted."

He moved his arms to his sides and hold them there. All the sexts moved in unison. The legs came slowly up as the back was lowered gradually, until Rill found hismelf lying latt on his hack, starting at the ceiling. The three attendants passed quickly through the compartnent, strapping the legs, waises and chests of the passengers to the cots, and fitting metal soles to their shoses, then they hurried to the rarz, clinbel on their own cots and strapped themselves down. A few seconds latter Bill's feet rested on a small ledge projecting from the bottom of the cot, and the straps held him in place, although has wree free.

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Again the bell sounded and Bill looked downward at the screen which, because of his position, was at the bottom of the compartment.

"Stiffen your knees and hold your legs rigid; we are about to take off," read the sign.

He set his muscles. The screen went dark and Bill closed his eyes.

Almost imperceptibly at first, he sensed the motion. Then suddenly the ledge was pressing hard against his feet and the straps strained to hold him. For several seconds the pressure mounted and then, as gradually as it had built up, it slackened, and in a few more seconds was gone allogether.

The bell clanged, and Bill's eyes snapped open and flashed to the screen, to see the word "Spaceborne" appear.

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Chapter 3 100,000 Miles a Second

low that he had cut loose from Motier Earth and was a part of the varit, deep space into which he had dotten gazed to longingly. Bill lost the sense of uncellity with which he had been regarding everything. Up to now it had seemed to him that their things were happening to someone che and that he was merely looking on, able to see and hear but not to them, and he was on his way to a phone still divide called "the Lost Planet," because it had taken man so long to discover its existence.

He had spent the last several weeks reading all he coold get its hands on about Postical, and he had exchanged letters with Msj John J. Keller, so the basic facts about his readiance-to-be were fresh in his mind. It was slightly smaller than Planet Earth, but its greater density gene it a gavity that was just about equal. Its atmosphere at sea level was almost identical to that on Earth and quite fit for human respiration. The planet had been named after the Greek god of the waters, Postelon, when it was discovered that its

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principal inhabitants lived in the oceans and greatly resembled octopuses, the major apparent difference being that they had six arms, or legs, or whatever one chose to call them, instead of eight.

The intelligence of the Possidians was reputed to be as high as that of Earthmen-indeed, some held dust it might be higher, though this was holy dehated. Once Bill laad gimpsel two Possidians on Earth from a distance, as they were emerging from the sca and entering the large water-filder abulte tanks in which they traveled to and from conferences, but he had very little died on what they were really like. It wous dered if it would be possible to treat these creatures as if they were filed-whatmas.

Bill fielt his cot folding nuder him, and opened his even star as heregined a sitting position on what was once again a chair. The attendants were off their seats and had started to unstrap the passegres, but Bill didn't wait for them to reach him. He had unbackled two of the straps and was working on the hird, when here remembered about placing his feet on the flor. The ledge at the foot of his chair had withdrawn when the cot had been reconverted, so he planted box grant space and the access planted to the strap without work of the straps and the strap of the strap without work of the straps and the strap of the strap without work on the was annuzed to realize that the great aphere fling the screen was tacht. They had already traveled quite a distance and were out in space.

For the few minutes directly after the blast that had sent them on their way, Bill had forgotten all about 100,000 Miles a Second

the messenger in the seat beside him. Now he turned his head to see Griff Hughes thumbing through the folders and pamphlets furnished by the spaceline to its passengers.

"That wasn't so bad at all," Bill said, by way of resuming their conversation.

Griff looked up and put the papers he had been reading into a pocket in the seat. "No, not at all," he replied. "They have it down to a science now. Blastoffs used to be wicked—people getting sick, even passing out."

"Yes, I've heard that Frankly, that's why I was a little worried about it I guess you never believe a blastoff could be done so smoothly unless you go through It yournelf. You know there's always a chance that you're the one goy in a million whose system is thrown into a loop by something that doesn't seem to bother anyone effec. The respiratory system alone is subject to seizure by any of a dozen sources, both psychosmatic and physical."

"Oh, sure," Griff said. "I knew a fellow once whose breathing used to get all botched up if he even saw a rose. He said that if he had to smell a rose up close for even a few minutes, it would kill him. As you say, though, it's a million to one shot; you can't worry about a thing like that."

"I don't," Bill answered. "It's just that I'd read a bit about the effects blastoffs used to produce, and I've seen so many people sick with maladics that you don't normally even hear of, that I... well, I was hoping I wouldn't mess things up." Griff looked at him with interest. "What's your line? Medicine?" he asked.

Bill nodded. "Specializing in space medicine, as a matter of fact," he said.

"Hal" Griff chuckled. "Figured you'd be a doctor. They're always worried about ill effects."

"Oh, we're not that bad," Bill laughed. He was getting to like this slender, bespectacled courier with the blunt speech. The fellow seemed to affect a sophisticated, man-of-the-world air which he advertised by his cynical approach, but he had an honest, open attitude which was likable.

"Maybe not," Griff said, "but that's why I'm just a lowly messenger traveling on slow passenger ships,"

"That's why you're a courier?" Bill asked, amused.

"It's a long story," Griff stid, as if the whole thing were quite boring." Dut you sey, 1. Inda intraded to onter the Space Force and get my commission as a test plot, since that's what I in ideally suitch for. The medical genulemen looked at these," he pointed to his specers, and askee the if 1 had ever considered selling opporor as a career. So, instead, my lightninghle reflexes and test-plot mind are shoulded into a soft seat a couple of times a work as we whereae between Poseida and Earth."

"It's too bad," Bill sympathized, "but look at the responsibilities you have. I wouldn't call 100,000 miles a second exactly wheezing, either."

"Yeah," grunted Griff, "responsibilities. Hahl I'm not an enlisted man. I'm not a commissioned officer, 100,000 Miles a Second

I'm in the inbetween limbo known as a white-stripe. And I don't care what you call this speed, to me it's wheezing. Those new babies, designed to go twice as fast-boy, they're for me!"

"If you're talking about the XL models, I should think you'd be glad you didn't have to go anywhere near them,"

"Why?" Griff frowned, and behind his glasses his eyes blazed. "Because of a few accidents?"

"Not because of a few accidents," explained Bill, "but because every single one of them that went up with a test pilot at the controls just disappeared. Vanished."

"Aha!" Griff exclaimed; then his voice took on a conspiratorial tone. "Do you know why? Do you know why not one of the XL models ever made it back safely?"

"Poscidans?" guessed Bill.

"Hogwash!" the courier grunted. "They wouldn't hurt a flea. Because of these." He pointed dramatically at his cyes. "If I had been at the controls of any of those ships, they would have returned, believe me."

Bill couldn't help being amused by the confidence displayed by his cocky companion, but at the same time he felt a genuine sympathy for the young man who, through no fault of his own, had been eliminated from the career he so passionately loved.

"Griff," he said seriously, "I am sure you would make an excellent test pilot. But what if the Poseidans are somehow involved? What if they have evolved

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some method to capture or destroy our ships? What could an unarmed craft manned by a single test pilot do?"

Griff Hughes waved his hand in an oh-go-away gesture. "That old witch's tale again! They don't have anything to do with it."

"Some mighty big men think they do," Bill argued.

"Which only goes to show how even big men can have small minds," Griff shot back. "Listen. I know many Poseidans, both in carrying out my duties and as personal friends. A nicer bunch of people you couldn't meet."

"Oh, I'm sure of that," Bill said quickly, glad of the opportunity to change the subject slightly. "To be honest, it seems funny to hear you talk of them as "people" and "personal friends.""

"What would you talk of them as?" Griff asked sharply.

"Frankly, I don't know how to think of them," Bill confossed. "That's what worries me most. I'm afraid I'll make a fool of myself when I meet them. Do I shake hands? If so, with what?"

"Bill, m'boy, you came to the right place. Old Griff Hughes will straighten you out. Naturally, I had the same problem at the beginning and, quite as naturally, I solved it—so now you can have the benefit of my experience. There will, of course, be no charge." It waved his hand airily and Bill was forced to smile.

"Well, sir," continued Griff, warming up to his role as teacher, "think of it this way. If the phone rang in your place back on Earth, and you answered it without turning on the viewscreen, and a voice you never heard before said 'Hello,' what would you say?"

"Why I'd say 'Hello,' too, I guess," Bill answered, a hit nuzzled.

"You mean as natural as could be you'd say 'Hello'?" Griff probed deeper. "Sure."

"Well, there you are, man, there you are," Griff said, spreading his hands. "You have no idea what the person at the other end looks like, or who he is, and vet you just act naturally. Do you mean to tell me that if you carried on a conversation for a while, say on medical matters since that's your field, and then you switched on the viewscreen and saw you'd been talking to a Poseidan, you suddenly wouldn't know what to say next?"

Of course! That was it. You spoke from your mind to the mind of your listener, ignoring the shape that housed the mind. Bill felt a tremendous sense of relief -now he knew he could meet Poseidans and be at ease. He had been worrying about it all out of proportion to the problem involved, and now he realized that, while it would take some getting used to, he had it licked. He could talk to them naturally, bearing in mind what Griff had said about the telephone.

Griff sat there preening himself, altogether satisfied with the impression he had made. Bill looked at him and smiled and shook his head.

"So simple," he said, "so simple and yet it had me upset. I've got to hand it to you, Griff, Thanks,"

"It was nothing," Griff murmured modestly,

"Let me ask you one more thing," Bill said. "You seem certain the Poseidans are entirely friendly to us. Do you have anything to base that opinion on, or is it simply your feeling?"

'ÎÎ put it this way,' his friend answered. 'If there is one bhigwhich this Courier Corps can do, it is to put its lowly messengers in touch with a great many people. When you get to meet very many people from ordinary ranks right up to the top, you get to know something about them. If, that is,' he hastened to add, 'you have a mind that can absorb things.

"Once in line of duty I was identified to carry a messing to bolk, the Leader of the Posedmas. Then, it wasn't a matter of great state—the fact it contained routine greetings from the Planet Earth Forces on this bitthday—hut I met the man and he invited me to spend the rot of the afternoon with thism. An invitation like that from the Head of the Posedan State is, naturally, an order—so I remnisch I can tell you. Delu is a great percon. We both enjoyed each other's company—we exchanged view on philosophy, and so on—and I know that he doesn't have a vicious hone in in his boly."

Bill smiled inwardly at the thought of this brash young courier exchanging philosophical views with Delu, who was reputed to be a sage. Whatever else he might ho, Griff Hughes was no shrinking violet; but then a courier who longed to be a test pilot had need of a large ego to sustain him. It was really only fair, and Bill accepted it in that light.

"I hope you're right, Griff," he said.

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"I know I'm right," Griff answered in his grand manner.

"You may be right as a philosopher," said Bill with a friendly grin, "but as a medical man I can tell you this: Delu is a Poseidan. Organically, all Poseidans are Cephalopoda. They don't *have* a bone in their bodies."

For a minute Griff sat there as if trying to decide whether to be angry or hurt at being made light of, then he threw back his head and laughed. "Okay," he chortled. "Okay, that one was on me."

The next few hours passed rapidly for the young men as they tailed and haughed and joked together. Bill knowed a great deal about Poseida, for which he was most grateful. Food was served to them in their sents, and they were still taiking when the bell sounded and the projectograph screen requested all passengers to strap themselves in the attendants again passed withfy through the compartment, removing the metal soles and holding wherever needed.

The seats again became cots and shortly the feeling of weight, searcely missed during the trip, returned, Bill feit the pressure on the soles of his feet as the ship backed downward the last few thousand feet. The roar of the landing rockets was heard, and the ship gently settled to a landing, rointing toward the sky.

All the passengers remained strapped in a standing position until the cranes eased the hull onto its side. Then the cots were reconverted into seats and the passengers unstrapped themselves and began to crowd into the aisles, waiting. Bill and Griff exchanged farewells, and Griff promised to look Bill up next time he had a detail which allowed him a few extra hours.

The outer door swung noiselessly open. The cabin was flooded with Poseidan sunlight, and the line progressed toward the exit.

Bill patiently kept his place and moved with the rowd slowly. Now he was at the threshold and stepping forward onto the portable stairs. Looking down, he could see a major of the Planet Earth Medical Corps among those waiting—of course, Major Keller, come to meet him He hurried his step a little, said a quick final good-by to Griff, and headed down the stairs—to Poseda.

Chapter 4 The Encounter with Kutt

ILL FINISHED unpacking and walked over to the window. It was hard to believe he was four billion window. It was hard to betteve ne was to use the miles from home. The officer who met him was Major Keller, a tall earnest man whose warm brown eves smiled even when the rest of his expression seemed serious. The trip from the spaceport was short, only a few minutes, and he had little opportunity to discuss his trip or to pay much attention to his surroundings. The major had introduced him to several of his aides, one of whom, Lieutenant Burns, had shown him to his quarters. Lieutenant Burns told him to unpack and change, if he wished, into something comfortable . . . there was no rush, but whenever he was ready. Bill was to walk over to Major Keller's office. With that the aide had left, and Bill, having unpacked and changed his attire and stowed his gear. was looking out the window.

Below him, at the bottom of the hill, the bay sparkled a brilliant blue. That was one of the things that took getting used to. Everything looked so much like Earth, and yet the colors were much more vivid. They reminded Bill of some extremely old movies-incolor that had been shown in one of his history classes. Everything was the right color, but so brilliant as to seem unreal. His quarters, in a cottage perched part way up the hill about half a mile from the water, were at the center of the half-moon bay, and visibility was excellent.

He could see some activity on the broad ribbon of coment that ran along the edge of the bay. At numerous points ramps led from this walk into the waters of the inde, but, as far as Bill could make out, all the figures moving about were humans like himsdif. Hoping to catch his first glimpse of a Poscidan on his native planet, he moved over to the burean and extracted his battery-powered electrocoulars from one of the dravers. He took these back to the window and, putting them to his eyes, focused on a group of mem who were standing at the head of one of the ramps, staring down its slope into the water, almost as if they expected something to come out of the depths.

Bill vatched for a minute, and was about to seveep away from this group to observe other areas, when he noticed a small surface disturbance of the water, as of some object moving quite deep below. He tensel, entered the area of disturbance in his electronians and slid the little lever down to the point of maximum magnification. The water movement was becoming more distinct and Bli lkove that whatever was caning it was approaching the surface. Excitement counsed through his voints as he watched the heavy

The Encounter with Kutt

ripples move toward the ramp, his cyse squinted in an effort to take in every detail of the area, even though the limited field he was watching appeared much clearer and bigger to him than to those waiting at the top of the ramp. At last the undervater motion reached a point only a few feet from where the ramp entered the hay. There was a noment of stillness and then three leapning splakies, and three objects appeared on the ramp.

Bill's hear pounded. His eyes glued to the electronulars, be examined the Posicians minutely. They did look like octopuses, no question. Their round, bulbous bodies were resting on the concrete with their tendacles-or legs-spread on all sides. Then with a strange, graeful motion, their legs drew under them and straightened. Hifting their bodies into the air. When they were in this position Bill could count their legs easily, and found that all he had read was true. They laid sit legs. It was framy-when they were lying down it seemed as if their tentacles were jutting out all around their three legs on each side of the body.

For a moment they stood there, the men and the posedans, looking at each other. Then with a motion that might be described as a continuous, rhythmic undulation of their less, the Poseidans advanced rapidly up the ramp and met the men. Bill could nor, of course, hear a word that was said, but, from the expressions on the men's faces and from the general ar, he deduced that greetings were being exchanged.

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Finally, Poseidans and men moved together toward the rear of a huge van parked on the cement rihlom. Ascending slowly, they moved up a ramp leading into the van and disappeared inside.

When they had geno, Bull laid aside his dectrocelars. He had here so engrossed in these strange peeple that many minutes had melled away and now he would have to harry. Although he had here told to come down to Major Keller' offler whenever he was ready, it would be discourteous not to get there within a reasonable time. He stopped over to the mirror and neatened his hair. He stopped over to the very thing in order and, with a light heart and expectant innit, katted for Major Keller's offler.

Bill entered the long, squat huilding which housed the Medical Headquarters. He was challenged by the sergeant who sat at a reception desk just inside the main entrance.

"William Hudson to see Major John Keller," Bill answered the challenge formally.

The sergeant pushed a button on his intercom and repeated the information into the microphone. After an instant's delay, a buzzer sounded and the sergeant picked up an earpiece and listened. Bill could not hear what was said hut the sergeant replied, 'Yes, sir," then put down the earpiece and said to Bill, "Lieutenant Burrs will be here to take you in, sir."

"Thank you," Bill returned.

A little of the military stiffness seemed to melt from

The Encounter with Kutt

the young sergeant, and he said to Bill, "You just get here?"

"Only a few hours ago."

"First visit?"

"Very first," said Bill. "In fact, this is my first trip away from Earth."

"Well, I hope you enjoy it," replied the sergeant. "As for me, I was stationed on our satellite station on the Moon, and I'm just winding up a two-year hitch here. It's a nice place for a visit," he concluded, "but I sure will be glad to get back to Earth and home, sweet home."

As he said this he straightened up and the military starch returned. Lieutenant Burns entered the lobby and walked up to Bill.

"Hello," he said. "Major Keller asked me to escort you to his office. Right this way."

He turned and started down one of the two corridors which converged onto the lobby, Bill followed him. At the end of the corridor they stepped into an office through an open door, and an enlisted man stood at attention and saluted Lieutenant Burns, who returned the courtesy.

The lieutenant paused outside a closed door leading to an inner office and knocked.

"Come in, come in," Major Keller's voice called. Lieutenant Burns opened the door and held it open as Bill stepped through.

Major Keller got up and came around the desk toward Bill with his arm extended.

"Aha!" he said as he pumped Bill's hand, "I see

you've spruced up a bit and you're probably anxious to look around the place. Well, I won't keep you long." He motioned to a chair and bade Bill sit in it, then sat down behind his desk. "First of all, now that we have time to talk." the major said. "how was your trin?"

"It was wonderful," Bill burst out enthusiastically. Then, calming his voice: "Nothing out of routine, sir. But I enjoyed it."

"Good, good. I'm afraid the first trip is usually disappointing. The only time trave becomes exciting is when something goes wrong--and then nobody has time to get excited. Too busy. Thank goodness, it doesn't happen often. At least not on these flights: He turned screuos, businessike. "These are, ah, not normal times. You may have heard something of the sort down on Earth."

"Yes, sir," Bill answered, "there has been talk of some trouble brewing, but no one seems to know exactly what . . ."

"Well, no matter," Major Keller broke in, dismissing that line of talk. Ti's in o concerne of yours officially. However, you must bear in mind that as an Earthman you cannot help but represent Earth to some degree. In your dealings with Possidians, any resentments you may cause will be simed in part against all Earthmen. Now I know General Watkins would never have sent you to me, if he didn't know that you would be an asset to our Colony here, but I felt I had to meetion it because it is important to bear in mind that whenever you are away from home your conduct reflects not only on yourstift but on your home." The Encounter with Kutt

"I am indeed aware of it, sir," Bill answered, "and I feel sure that I'll get along very well with the Poseidans."

"Of course, of course," said the major and he waved his hand emphatically. "It's just that in, ah, times like these we can't be too careful. However, enough of that. You're here on vacation. Look around all you want and if there is anything you need, ask me or any of my staff."

"Thank you, sir. I'll be especially careful not to tread on any toes."

As soon as the words were out he felt like kicking himself. Poscidans didn't have toes. It was little slips like this one which might cause an awkward moment in conversation with the creatures.

Major Keller didn't seem to notice his lapse, so Bill continued, "I want to thank you, Major, for accepting me as a guest here."

The major milled, "Not at all, my boy," he stal. "Chalt bave you. I understand you're specializing at space medicine. As you know we have a fine haboratory on base and we are carrying on an extensive research program. If anything there interests you, spend as much time as you like and ak as many questrons as you wish. The staff is chronically shorthanded and can use a new man like yourself if you wish to give them any time later. For the moment I suggest you spend the next few days ighthceing and getting yourself acquainted with Poseidans and their plane."

This was exactly what Bill had wanted to hear. He

was anxious to spend as much time at the laboratory as possible. Things couldn't have been going better. He stood up.

"With your permission, then, Major, I'd like to take a walk around."

"Fine, fine. Oh, by the way, you'd better take along a copy of this booklet." The major reached into a drawer and extracted a alim paperbound volume. Ti's the standard Gozet Guide. Tells you what sort of schedule we run here. Mess hours, restrictions—that sort of thing. Coel information in there, too. You'l find the double-page map in the center very useful." He stood up, facting Bill, and handed him the pamphlet. "Lat me repeat: don't besitate to ask for anything you want."

They shook hands and Bill departed, having thanked his host again.

Once outside, Bill relaxed. Now he was on his own, with a whole planet to be explored and an outside new people to be met. It was hard to tell where to start. The first thing he wanted to do was to get away from the bustle of the base. He walked along the gate and down toward the bay he had seen from his window. When he nad passed through the gate, he pansed, pulled out the bookket Major Keller had given him and opened it to the man.

For the same reason that he had wanted to get away from the base, Bill felt he would rather not go down to the bay where everything was so businesslike and where Earthmen abounded. Studying the map, he

The Encounter with Kutt

saw that over the hill to his left three was another, smaller bay about two or three miles away. The only road led straight down to the water ahead of him, so he left the road and extra sons country, walking up the grather ine. When he had topped the hill and was walking down the other side, he stopped and hooked around him. Now he could see no tomes of other men-No buildings, no transmitter masts. He was alone on Poseida. At least that was how it hold, and Bill liked it.

The eountryside was not too different from that which he was used to. The dark-brown land, spotted here and there with various shades of green, undulated toward the bright-blue water. Aside from the electric quality of the colors, it was very much like Earth.

As he walked, he drank in the beauty of the land, trying to set up in his mind what his first meeting with its inhabitants would be like. Should he be especially formal norder to take no risk of effending, or should be take a free and easy approach, as if this sort of thing lappened every day? He was a little nervous but he folt the first encounter would prohably handle itself. Being occupied with his thoughts, the first time he heard the gain and fraze.

It was a thin sound. Almost like a faint voice. He stood immobile and strained every nerve listening. Had he imagined it? Now it came again, so soft it seemed like the voice of the brezze itself, but definitely a sound. He had leartyh heard the word "Helpf" He stood poised for a moment, then ran forward and stopped to lister again. This time he heard it clearer. "Help!" Still indistinct but louder.

Once more he ran forward and stopped.

"Help! Please help!" came the cry.

Bill cupped his hands to his mouth and shouted, "Hellol Where are you?" He was still not sure that someone wasn't playing a joke on him. A pretty poor joke it would be, he thought. The voice was so thin and high it sounded as if it were being purposely disguised.

"Over here by the tree," came the answer. "Turn a little to your right and come over here. Hurry, please."

Although he still could see no one, Bill obediently sprinted for the nearest large tree, about fifty yards ahead. When he was right up to it, he saw a Poseidan lying on the ground. One of its legs was gripped firmly by the cruel jaws of a steel trap which was fastened to the tree by a chain.

Swiftly Bill sized up the situation. "Take it easy, feller," he said soothingly, dropping to one kuee beside the trap. "I'll have you out of here in a minute."

He tried to separate the jaws of the trap, but the spring was too strong and his hands slipped off the metal. A small moan came from the Poseidan as the jaws snapped together again.

In desperation, Bill again strained at the trap, and, as the jaws moved slightly apart, he exerted greater force. Disregarding the pain as the serrated edges bit into his flesh, he gathered his strength and with one vigorous pull opened the trap.

"Thank you," gasped the Poseidan, "please get me to water. I can't stay out much longer." The creature quivered and lay helpless. Bill picked it up and put its body on his shoulders, grasping its legs piggyback fashion. He started for the water, which was about a mile away, running, stumbling, urged on by the gaspa from the creature on his back. Every now and then the word 'Water' would come from the Poseidan in pleading. Juli-fedirous tonse.

"TI have you in the water in just a minute." Bull panted, as he strengtled over the terrain that had looked so smooth from a distance but was uneven and rough beneath list feet. It was hard to keep his footing. running down the slope, missing a step, then catching it and regarding list balance as he made his way to the water. It was the longest, most difficult male of his life. The surgence of the situation made him oblivious the hunt of senged ankles as they turned their struggle with the trap, gripped their hung one difference of the structure of the structure of the structure of the trap. Gripped their hung one of guten for the moment as Bull sparted out show two of of encouragement. Taxy now ... we're almost there ... you're grippin to be okay."

Then, at last, a few final steps brought him to the water's edge. He knelt and gently easily the Poseidan from his shoulders and, cradling the creature in his arms, held it over the water. He lowered the Poseidan util it was just beneath the surface and released his hold. It sank down about five feet to the bottom and stayed motioneks.

Bill remained there on one knee, peering into the water, trying to perceive some sign of life. Clear though the water was, vision was distorted by tiny ripples on the surface so that he could see the shape of the Postican but all detail was lost. Many times he started at what he thought was a movement in the water, but he could not be sure that light refraction hadn't been playing tricks with his oves.

Then all six arms moved at once and Bill knew the Poseidan was alive. He watched the creature growing in vitality and strength and after a fow minutes saw it leave the bottom and hover, suspended, in the water. It paused, its arms undulating slowly, and then deliberately made its way to the top.

As the head and body broke through the surface, Bill smiled and said, "Glad to see you're okay now,"

The Poseidan looked at him steadily for a moment and replied, "I suppose I should thank you for saving my life, anyway."

Bill gestured and said, "Not at all. Glad I could help. You'd have done the same for me, if our positions had been reversed."

"Yes I would have," returned the Poseidan evenly, a note of controlled reproach in its voice, "but I wouldn't have trapped you in the first place."

Bill was stunned. Apparently the Poseidan was blaming him for having set the trap. "I didn't set the trap."

"No?" came from the water. "Wcre you just inspecting the traps to see what some other Earthman had caught?"

"Now look here!" Bill's voice rose in annoyance. "I didn't set the trap and I wasn't inspecting it. I happen to have set foot on your planet for the first time in my life just a lew bours ago. In withing here mainly because I'm interested in space medicine. I don't go round setting range seven back home, but if I doff therm on dy leads I'living gatten that much of his space too far. After all, this ways the home of the Proseidans and they definitely had the right tog anywhere without fear of getting caught in a trap. I'l scene I ow you an apology, "aid the Poseidan

"Think nothing of it," Bill said. "I can understand what you must have thought. The important thing is that everything turned out well."

He rose and was about to walk away when the Poseidan called out, "Wait! Before you leave I want to know your name."

"I'm Bill Hudson. I hope we'll meet again while I'm here," Bill answered. "Under better circumstances," he added with a smile.

"We will meet again, Bill Hudson," said the Poseidan. "My name is Kutt and I shall see that you are repaid for saving my life." "Lay off," Bill answered good-naturedly. "Forget it. I'm in medicine, I told you. Saving lives is my job."

"We shall meet again, Bill Hudson," Kutt repeated. "In the meantime you should put your knowledge to use on yourself and treat your hands. They need attention."

Bill looked down and noticed that his fingers were stained a dark red from the blood that had poured from his wounds and was just beginning to dry.

"I guess you're right," he said. He wanted to rinse them but hesitated to wash the blood off in the water which was Kurik shome. "I'll get on back to the base. They'll fix me up in a jiffy there. So long for now, Kutt, and good luck," he concluded and turned to start his walk back.

"Thank you," Kutt called, "I shall see you,"

When he had walked part way up the hill, Bill turned and waved a grimy red hand. A slim arm raised out of the water in answer and then Kutt slipped beneath the surface and was gone.

Chapter 5 Bill Hudson, Diplomat

DUTES' [JUTERA, what happened to you?" Major Keller was crossing the broad grounds just inside the main gate as Bill came through. Bill's attempt to answer the question was stiffed by the major who hustled him over to the post infirmary at double time. While his hands were being classes and artested, Bill managed to relate the incident. Lackly, it was found The day doctor thos there stiftness in the deepset cut, applied a powder which eliminated any danger of infection and syraped on a seakant.

Once the extent of the injury had been ascertained, and the story told, Major Keller left, acking Bill to report to him in his office when he had cleaned up. From the way the major listened to his account, Bill could tell nothing about how the story had been received. He felt a certain anxiety as he returned to his quarters and shed his standed dothes. Although he have perfectly well he had done nothing wrong, still here he was involved in an incident with a *Dotedian* within a few hours of his arrival and Major Keller's admonition to beware of creating resentments.

Well, there was nothing that could be done now, thought Bill as be climbed into fresh attree, easing his bandaged hands gingerly into the sleeves. He hoped Major Keller could see that he was in no way responsible for what happened and yet he felt he could not belabor the point. With a fatalistic shrug, he walked into Medical Headquarters and announced himself to the serzenat at the deak.

A different man was on duty but at the mention of the name the sergeant snapped alert and said, "Oh, yes, sir, Major Keller asked that you be sent directly to his office. Do you know your way?"

"Yes, thank you," Bill replied and started down the corridor. As he came to the open door of the anteroom, he took a deep breath and walked through. Several officers who had been standing together talking in low voices looked up and conversation ceased. Lieutenant Burns detached himself from the group and walked over.

"Ah, Cadet Hudson, Major Keller will see you right away."

Cadet Hudson, Bill thought. They're going awfully formal on me. Funny how a simple greeting can set a mood. "Bill" would have made it firendly. "M. Hudson," a little starchy, perhaps, but to be expected from a licutenant on duty. But "Cadet Hudson" put him squarely under military jurisdiction.

Lieutenant Burns knocked on the closed door and the familiar "Come in, come in," sounded. Bill walked

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through and Lieutenant Burns took two steps into the room, saluted and announced, "Cadet Hudson, sir."

The major returned the salute and said, "Thank you. That will be all, Lieutenant."

As the door closed behind the departing officer, the major turned his attention to Bill, standing at attention in front of the desk.

"Sit down, young man."

Bill sat down at attention. He was waiting for the major to speak. If he were to be sent back to Earth now it would be crushing. A search of the major's face revealed nothing. Major Keller spent a few minutes in silence, looking down at his desk as if choosing his words carefully, finally he looked up.

"Well," he said. He paused, cleared his throat and continued, "This Poseidan you, ah, met. His name was Kutt?"

"Yes, sir."

"You didn't tell me that before."

"I suppose it just slipped my mind, sir," Bill answered. "I didn't think the name was important."

"In this case it is," Major Keller said, leaning back in his swivel chair. "The name Delu means something to you?" This was half-statement, half-question.

"Why, yes, sir," Bill answered, puzzled. "Delu is the Poseidan Patriarch. He is the Leader of the entire planet."

"Exactly." The major leaned forward and rested his elbows on the desk. "Delu has one son-a lad of about your own age. His name is Kutt. You met him today."

Bill's head reeled. That did it. Getting himself in-

The Lost Planet

nocently involved in an unpleasant event was not enough. It had to be with the only son of the commander in chief. He groaned inwardly.

These spent most of the last how in communication with Possidian Haedquarts," Major Kaller continued. "They are treating this thing at the very highest level. A full report will have to be made to the Combined Chiefs at home." He sighed wardly. "You have no taken how much paperwork that involves. We'll have to beep our staff working overtime for the next week just to handle your case. But, son," he stodo up and stretched his hand out to Bill and his face broke into a wide gin, "In proud of you."

Bill stood up and accepted the hand uncertainly. "Proud of me?" he faltered.

"I should say so," the major said heartily. "You are to be awarded the Poseidan Medal of Devotion, the second highest honor in their lists."

Bill stood there dumfounded. In his anxiety as to how severe his censure would be, it had never occurred to him that he would escape without reprimand, much less that he would be rewarded.

"I-I don't understand," he stammered. "I didn't do anything. I mean, I just happened to be there when . . ."

"Come, come, my boy," Major Keller broke in, smiling, "Poseidans don't just hand out their medals for nothing, any more than we do. But, to the business at hand. I'll need a full report from you. Can you have it ready for me in the morning?" "Yes, sir."

"Good. The ceremony will be the day after tomorrow at Poseidan Headquarters. General DeVere is having his protocol officer sent over to brief you so you'll know what to do and how to respond. It's quite an elaborate ceremony, I understand. Now then, did you bring your cadet uniform with you?"

"No, sir, I didn't," Bill answered. "I was to visit as a civilian, and since I had no official status . . ."

(a) Cyrian, and since t and no volces major interrupted. "Well, no matter. I'll have my aide take you to the quartermater where something will be whipped up that will do. All right then, Bill," he finished, walking around the desk and toward the door, "you'll have that report here first thing in the morning?"

"Yes, sirl"

Major Keller opened the door and gave his instructions to Lieutenant Burns, then shaking Bill's hand again, he returned to his office. Bill followed Lieutenant Burns.

Until the ceremony was over and the presentation mach, Bill dich, have a moment to bis name. When he was not filling out report forms and signing affldavis, he was being fitted for a uniform. On and off through the day, he would be called to Major Keller's office where a Colonel Vandersteir, General DeVers' protocel officer, ran through the ritual of the ceremony, and together they releasance Bills part in it. Although he applied himself to mastering the role he was to pluy, Bill would much have preferred to skip the entire thing. Major Keller's constant reiteration of what a great thing lisk was to interplanatary relations made Bill feel that to some degree then the fuss was worth-while. The uniform was not a back fit considering the rush, and as a medical man, Bill carried no arms. There were just the silver belt and the ceremonial, gold-plater epited of a Cot 4.5, an ancient waspon which had passed out of use except for decoration on State occasions.

The day itself went well. The presentation took place in a large room designated the Hall of the Universe, and contrary to his expectations Bill made no mistakes.

The Hall had been designed especially for use on occasions when Earthene were present, and had canals running underestable the floors, emptying into a large pool in the center. This pool had solping sides, so it was an easy matter for the Posiedans to emerge and carry on their business with Eartheme assembled within the room. The ritual itself was very formal, the factor of the observation of the Hochson and the Posselan Chief Deputy standing alone between the formations.

After the ceremony, when refreshments were being served, Kutt sought Bill out. He found him and moved up in back of him.

"Hello, Bill Hudson."

Bill recognized the voice and whirled around. "Kuttl" he exclaimed with pleasure, "I'm very glad to see you." "No more glad, I assure you, than I am to see you. After all, it is thanks to you that I am here."

"Oh, please," said Bill earnestly, "there has been so much more fuss made over this thing than was ever warranted. I do appreciate your kindness and your father's generosity more than I can tell you, but, really, I would appreciate it even more if we could forget about it now,"

Kutt gave a short laugh, almost a giggle of mirth. "I think I know how you (eel, Bill Hudson," he said. "You're a good fellow. Before we forget entirely about it, though, I am directed by my father to invite you to spend the next few days with us. He would like to meet you personally and he feels you should get to know us better."

"I'd be delighted," Bill answered in all sincerity. "I shall have to talk with Major Keller first."

"Oh, he is not likely to refuse Father," Kutt said with a chuckle.

"No, no, I didn't mean it that way," Bill corrected himself hastily. "I am on Poseida as a guest of the major, and it would hardly do to move out on my host without an explanation."

"Ah, yes, of course," Kutt teased. "It is a wonder your diplomatic corps allowed you to enter any other field, Bill Hudson."

Bill laughed. He felt increasingly at ease with this jocose Poseidan.

"Okay, okay," he said, "quit pulling my leg. You know very well I feel honored and happy to accept on one condition." "A condition, Bill Hudson?" Kutt sounded surprised. "What would that be?"

"That you call me Bill. Not Bill Hudson. All my friends call me Bill."

"Agreed, Bill," Kutt answered, waving his arms with pleasure. "Strictly agreed."

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Chapter 6 Poseidan Hospitality

Ins write, be your room, "Kutt said as he led Bill through the door. It was a large, rectangular room, isstefully formihed and ingeniously designed. Bill's eye was cought particularly by a canal that ran the entire length of neo wall, making the place useful for both Poseidans and Earthmen. The door at the entrance, which ald out from the wall as the touch of a button, extended into the canal, so that when it was closed the privacy of the room was complete.

Kutt greatured gracefully to a multiswitch panel built into the wall by the bed. "If you should want anything at all," he continued, "jout press this botton. The one over here locks the door. If anyone wants to come in, he presses the release button outside your door. If you have your door locked, it will not open but this red light flashes on and you will know someone is outside. You may talk through the closed door by means of this microphone, and finally by pressing this button you open the door."

"You seem to have thought of everything," Bill re-

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plied, nodding approvingly. "This is really a layout." He walked over to the window and looked out. Directly below was the ocean, and the long, low buildings, of which his room was part, curved gracefully into the water and disappeared beneath the gentle ripples.

"Does the Palace continue on under the water?"

"Certainly," Kutt answered. "In fact, before contact was catablished between your popul and mine, he underwater part was all there was. This extension was built later. You see," he added mischievously, "whereas we Posieldans can exist outside our natural element for several hours at a time, you poople would have difficulty visiting us down there."

"Yes," agreed Bill with a laugh, "I guess we would have."

"Say," Kutt said, as the idea suddenly struck him, "do you swim at all?"

"You bet," Bill answered enthusiastically. "I love it."

"Get your stuff on and I'll take you down to the beach," urged Kutt. "I'll show you around the rest of the place later. We have plenty of time for the tour."

"Great!" Bill cried happily, "I'll be ready in a jiff."

Bill walked through the knee-deep water. Off to his right, Kutt romped about where it was deeper. Suddenly Bill launched himself forward and, swimming with his face underwater, headed for his friend. Kutt vecred dir and with effortless grace glided toward the long pier which jutted out from the land. He enched it and withet for Bill who came splashing up.

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Bill reached up and got a fingerhold. The water was well over his head here.

A bubbly laugh came from Kutt, who was floating easily on the surface.

"What's funny?" Bill called over.

"Forgive me, Bill," Kutt gurgled in his mirth, "but I just can't help laughing every time I see one of you Earthmen swim. You make such a production out of it. You're very graceful on land, but in the water ..." His speech was drawned out by the giggles bursting from the bubbles around him.

Bill appreciated the joke and enjoyed seeing his friend so cheerful. Then he got an idea. "So you fellows are graceful in the water, huh? Okay, then let's see you try this."

He hoisted himself out of the water and climbed onto the pier. He stood poised for a moment, his toes curling around the edge. Then with a muscular thrust he curved into an easy arc and completed a flawless dive. slicing cleanly into the water.

He surfaced, shook the water from his face and with a wide grin said, "Your turn, Kutt."

"What am I supposed to do?" asked Kutt, somewhat perplexed by this turn of events.

"You saw what I did," Bill answered, chuckling. "Go to it."

Resignedly, Kutt lifted himself out of the water and stood on the pier. "What do I do now?" he called in comic bewilderment.

"Just dive in gracefully," Bill answered, laughing,

and then as Kutt hesitated, "Don't tell me you're afraid of the water!"

Thus goaded, Kutt pushed himself off and executed what could best be described as an ungainly fall into the water. Their voices mingled in loud laughter as they both raced toward the shore.

Later Bill hay on the sand, his feet stretching into the water. Kutt sprawled nearby, letting the cool water lap over him. At the far end of the beach the Palace rose out of the sea and anchered itself on hand. Behind it rose the great Mount Tildh. On Toseida the mountain was the highest point land reached. At the summit the hunge Tower of Life rose massivey into the sky and completely dominated the surrounding landscape.

The two had become fast friends. From) how these things work out, thought Bill. You can know some people all your life and never really get to know them. With others, you barely eschange greenings and you know that they are 'your sort of guy.' That's the way it was with Kut. The two had spent all morning and half the afternoon together and they were now close friends. Many things could be left usual between them, Each understood the way the other felt without about Eddie Walks and what a great group to was 'You'd like Eddie,' he had said and Kutt said that he was sure he would.

After a momentary silence, Bill looked up into the sky and said, "You know, Kutt, I wish certain people down on Earth could be here now. If they met you Poseidan Hospitality

and knew what you people were really like, they'd feel a lot different."

"I guess that's the way it always is," answered Kutt. "People are always afraid of what they don't know. That goes for my people as well as yours."

"Well what exactly is the trouble?" Bill asked. "Twe heard a great many rumors and some vague charges, but I've never had anyone pinpoint for me just what the problem is."

"I can't speak officially, of course," Kutt replied. "I can only give my own opinion."

"If it comes to that," returned Bill, "I shouldn't be discussing this sort of thing at all. I was cautioned against getting into anything controversial but . . ."

"You were cautioned," Kutt broke in. "Hahl You should have heard Father! He went over the Prineiples of Behavior in their entirety twice over, but I know I can speak in confidence to you. Will you tell me on your honor that whatever I say to you will never be repeated?"

"You have my word," Bill answered solemnly, "and I have yours?"

"You have," Kutt said. "Now I can give you my opinion as to what is wrong." The Poseidan settled himself comfortably and began to talk.

"I'm going back quite a way because I believe the trouble had its beginning from the very moment our two peoples met. As you know, our ionosphere differs from yours. Light and heat rays may enter our atmosphere but are prevented from leaving it, much like the way light can enter a one-way mirror but is prevented from reflecting back. Because of this total lack: of reflection of light and beat, your people did not know of our planet. We, in fact, knew about you for a long time and finally perfected our light engine, which enabled us to make the trip to Earth. Athough we were the first people really to travel through space, and although both our people seemed to have developed along the same lines scientifically, we always have folt that we were regarded as inferiors by Earthmen. I suppose it was because we second so different. But then 1 inagine that your people must have looked very pencilar to my ancestors.

"At any rate, when we established the Poseidan Colory on your Earch, in what you call the Pacific Ocean area, we granted you colony rights here. You developed your own spaceships, using our basic devices which we donated to your scientists. Your scientists were of great help to us in other fields, and it seemed as if a great era of interplanetary friendship was developing.

"Unfortunately there has always been a faction of Earth people which did not fully trust us and facard that we were dangerous to them. Ironically, these were the same people who considered us to inferfor. On our side, we had people who resented this attitude externely and, instead of realizing that the small segment of trouble-seekers on Earth did not represent popular ophionic, runned against all Earthmen. Now, when any Earthman here commits even such a small treaty violation at to set trans to catch chullas, these extremists don't regard it as the irresponsibility of one man but as a sign of the unreliability of all Earthmen. They agitate to sever all connections with Earth. They haven't gotten anywhere, of course, because Father is not the sort to be stampeded by a group of hotheads, but it does nothing to improve relations.

"As I understand it, your scientists have developed the engine that uses light as its source of power to a point where they may even be able to exceed the speed of light risk. I have heard it suid this works in much the same way that those sailboats you peeple use for pleasure can sometimes exceed the speed of the wind which powers them. I am not a wientist, so interest me is the fact that every one of the nove ships your peeple have tested has disappeared and we are being blanned.

"This has given great impetus to the movement of those Earthmen who have always disliked us, and as a consequence both sides have stopped thinking logically and are allowing their emotions to run away with them. If they do allow their emotions to run them wild, it will be disastrous."

There was a silence as Kutt stopped speaking. Finally Bill spoke. "You have given me a much clearer picture of the situation than I have ever had, Kutt, but is it really as simple as you have made it sound? The way you put it, it sounds as if a small group of Earthmen don't like Poseidans and a small group of Poseidans don't like Earthmen and that is the whole problem."

"Well, basically that is the whole problem. But both are noisy and dedicated groups."

"All right," said Bill, coming directly to the point, "then what about our missing spaceships?"

"I don't have the answer to that," Kutt replied, "but I do know that neither my father nor his Government has anything to do with it."

"Spacehips don't just disappear," Bull persisted. "Our scientists may not be infaillible but they wouldn't let ship after ship merely vanish. They have loaded them with warning devices that could send a message back to Earth. Our test pilots are highly trained men. They are intensely indicativated and are under strict orders to flash the word back if the hourd from. Descrit that seem to indicate they are being struck down in some manner by some outside force without the slightest warning?"

"It could be," Kutt mused, "but I know that we are not responsible."

Suddenly an idea came to Bill. "Kutt," he said, "dld it ever occur to you that some little group such as you mentioned might base decided to take matters into its own hands, and with the help of one or two renegade scientists have figured out some way to down these shins in retaliation?"

"No, to tell the truth, I never thought of that," Kutt said. He paused for a moment, thinking about it, then decided, "No, Bill, such an undertaking Poseidon Hospitolity

would have to be on such a large scale it could hardly escape detection by both your Government and mine. I don't believe it could work that way."

"I suppose you're right," Bill conceded. "Boy, I'd give a lot to know what's behind it all."

"That makes two of us," said Kutt. "And a few billions of our people,"

Chapter 7 The Tower of Life

URING the next few days. Bill learned more about Poseidane than most of his fellow Earthmen learned in a lifetime. He met Delu and discovered for himself what others had already recorded. Delu was wise and kindly, but what impressed Bill most was a great sadness which reflected itself in Delu's speech. More than once, Bill wanted to bring up the subject which he knew must be uppermost in his host's mind, but felt that Major Keller would not approve, and Delu showed no sign of introducing the state of interplanetary affairs into the conversation. On thinking it over, Bill decided that it might be all for the best if the topic were avoided, inasmuch as he might let slip some words of his confidential conversations with Kutt, and thus make trouble for his friend.

One eurious Poseidan custom bewildered Bill throughout his visit. Before every important moment of the day, such as on awakening, and just before meals, all Poseidans faced the Tower of Life on Mount Tiffah and raised an arm, as if in salute. A minute of silence followed, during which Bill, too, faced the Tower and stood quiet, feeling a bit awkward, not knowing whether to salute or simply stand there. He was always relieved when the moment was over and conversation resumed, but no reference was ever made to the rite. Somehow he always hesitated to question Kut about it.

On the last day of his visit, Bill and Kutt spent the afternoon walking on the beach. They chatted as they moved along aimlessly, bringing up incidents in their past lives, laughing when it appeared that, although they were born billions of miles apart, many experiences in their backrounds had been similar.

They had walked for about an hour and were sitting at the far end of the beach, where the water lapped gently at the white sand, when Bill became serious and turned to his friend.

"Tell me if I'm stepping out of bounds, Kutt, and I won't feel hurt, but there's one mystery that has been puzzling me."

"If I know the answer, I'll certainly tell you," Kutt answered. "What is your big mystery?"

"It's your Tower of Life," Bill said bluntly. "Obviously it commands tremendous respect among your people, yet I can't tell whether it is a symbol of your national unity, such as our flag, or whether it is a memorial, or what. I'd heard of the Tower before I ever came here, and it seems that everybody on Earth has a different opinion of it."

"That's very interesting," Kutt mused. "What are some of their opinions?"

"Some think it's like a flag, some think it's a

memorial, others say it's just a watchtower," Bill replied. "Twe even heard that it has no real signifcance... it's just a tower, like one that used to exist in a city on Earth called Paris. These people say that throughout the ages some Poseidans started saluting it, and now everybody does without knowing why."

"And you," Kutt said evenly, "what do you think?"

To tell the truth, I don't know, If it we're a sort of fing or memorial, you people would thak shout it and probably discuss it proudly. None of you ever so much as mentions its *barthmen*, and if the subject does come up. I understand your answers are always noncommital. I don't believe the watchwore theory either. First of all, your people don't need one, and other its the interpret of the subject the subdistingt on the interpret of the subject the subtrag something without knowing why?

"Thank you for your vote of confidence," Kutt said with a chuckle.

"You know what I mean. At any rate, if you'd rather not talk about it, I'll understand."

"I was just teasing you. This Tower of Life is our one big secret. We don't even speak about it among ourselves. . . ."

"Sure, Kutt," Bill began, "as I said, I understand. If you'd prefer not to . . ."

"No, no, it's not that," Kutt broke in. "I want you to know that personally I trust you implicitly, just as I feel you trust me. As the son of Delu, I believe that if our two peoples shared the confidence in each other which we enjoy, any threat to the peace would disappear. There has to be a beginning somewhere, and I think you and I could well be that beginning. So, although I know Father would not approve hearthy, I feel it right you should know and understand about our Tower. This will be strictly between us, and you must never talk about in-directly or indirectly-with anyone cless. Right?"

"You have my word," Bill said simply.

"Good. In one respect, at least, Earthmen guessed correctly. The Tower is a symbol, but it is also functional. It is a symbol of our security, and is suluted as such. But the Tower also provides our security. You see, it is a highly developed mass-energy transmitter."

There was a momentary silence before Bill spoke.

"You can be sure your secret will be safe with me," he said, as a faint smile played around the corners of his mouth, "because I haven't the least idea of what a mass-energy transmitter is."

"I see," Kutt went on. "Have you had much physics?"

"No. Of course I've had some, but, since I was going to take up medicine, I never got much beyond the routine elementary amount everyone has to take."

"In a way that's good," Kutt said with a chuckle, "because if you were a whiz in physics you would probably ask me questions about it that I couldn't answer. I can tell you roughly how it works. You do know that mass and energy are interchangeable?"

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"Sure. That much, I know," replied Bill. "Mass is just one form of energy and vice versa."

"All right. To go on from there, mass translates into density, which is measured by weight. Check?"

"Lead on, Professor," Bill smiled, "I'm with you so far."

"Now take a rotating body following a fixed orbit in space," continued Kutt. "Suppose you added density, what would happen?"

"Well, a number of things could happen," Bill hedged.

"True, of course, but one thing that would happen immediately would be a proportionate increase in the body's gravity."

He paused, and Bill allowed the import of what had just been said to sink in. He thought it over and then, "Why, yes," he said slowly, "the greater the density, the greater the gravity. That would follow. Where does the Tower fit into all this?"

"Right smack in the middle of it," Kutt said comphatically. The transmitter bead on the Tower swivels to plapoint any target chosen, and its range carries into any corner of our universe. When the target is centered and the circuit closed, mass is itanamitted in the form of energy. With no change in shape or size, the target body becomes steadily denser. Its gravity increases and all things on it are pressed onto its surface, held immobile by their own weight."

"Sufferin' Saturn!" Bill exclaimed. "If a man were on the target planet when that thing was turned on,

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he'd slow down without knowing why until he finally couldn't move at all, right?"

"Right!"

"And if," Bill continued, "the target planet were Earth . . ." The thought stunned him. Nobody on Earth even suspected that such a machine existed, he felt certain. If war ever came, the Poseidans would put an end to it quickly.

Bill thought of the group of hotheads on Earth who were so anxious to tangle with these people. If they knew what he had just learned they would change their tune. It occurred to him that in the light of the mass-energy transmitter, it was imperative that the cordial relations between Earth and Poselda of the first few decades he re-established.

"Are you sure it works?" he asked finally.

"Oh, it works all right. It has been tested on various planetoids, and it has been perfected through the years."

"Our history books say the Tower was standing when the first contact between our people was made," Bill continued. "Was it an energy-mass transmitter, or mass-energy transmitter, or whatever you call it, then?"

"Sure. It's been a transmitter since it was put up."

"Well, then," Bill asked, "why in the name of Mars doesn't your father just make a speech and say something like, "Look, people of Earth, most of you want peace. We want peace. We have a transmitter that will paralyze you if you start anything, so let's have peace?" "You sure make it sound simple," Kutt laughed.

"Oh, I didn't mean in exactly those words," Bill said seriously. "He'd say it in regular diplomatic style and all."

That's not the point. Father feels that we have been humilated throughout the years by a vagas, implied sense of superiority on the part of some of your people. Naturally, we Possikam sreast it. Father believes if he made our secret public it might be taken as an aggressive move and would build an even deeper resentant among Earthmen. Also, once your scientitis were put on the track, he thinks they would duplicate our Tower in a short time. That would remove our security."

"I guess that makes sense," Bill said.

A new thought struck him. "Say," he burst out, "do you suppose the mass-energy transmitter has anything to do with the disappearance of the new spaceships?"

"Not a chance. Father is the only one who can activate it, and tests are held only one or twice a year in an area where no spacecraft ever travel. Besides, her reaction isn't ristantancous. Even when an Earthman of average is strong haveral minutes in which to fash a varning that something was happenniss the'd Bublish for the what was piour abublish the bublish or the what was piour abublish we disappeared without warning, remember".

Bill had to admit his friend was right. It would not

take much to press the alarm button which would send out the automatic distress signal. All the vanished test pilots had been alerted to the possibility of mishap and would have signaled as soon as anything departed from the normal. No, whatever it was had struck without warning. In a fash, the pilot or his sho, or both, must have been commletely disabled.

Bill was certain Kutt knew nothing more than he did about the mystery of the XL ships, and he folt reasonably sure if Kutt didn't know anything about it, then neither did any other Poseidan. This seemed to put them in the clear, and yet try to explain that to the people back home!

"Ah, yes, my boy," he could imagine General Watkins saying, "Kutt is a very nice chap, to be sure, but how do you know he is telling you the truth when he says he knows nothing about it?"

Since he couldn't reveal that he and Kutt had sworn mutual pledges of socrecy, much less disclose the meaning of the Poseidan Tower of Life, his, "Well, I just know he is," in reply would sound pretty weak. The general would put him down for an addlepated sentimentalist. It was frostrating.

Kutt broke into his thoughts. "I believe I know what you're thinking," he said.

"Oh? What?" Bill challenged with a quick smile.

"You're thinking that the troubles between your planet and mine are all merely troubles of the mind. Fancied insults smoldering in our minds and imagined threats boiling in yours. You're thinking that all these fears could be easily allayed and all the ill feeling put to rout if only you could find the formula."

"That's itl" Bill exclaimed in amazement. "If we could only find some way to show people how false their ideas are, all the tension on both sides would drop away, and we could go back to the old days when Earthmen though to besidans wonderful and Poseidans thought we were great. How did you know what I was thinking?"

"Because the other night, after we'd been tabling, I realized that I had been slipping into the thinking habits of some of my countrynnen-and how vrong I, hab been. When I discovered what a great gay you were, just like a brother, I thought along the lines that you were thinking right news. If everybody got to know each other the way we do, there would never be any real trouble."

Bill was deeply touched by Kutt's words. Somehow, it simply had to work out all right. His mind winged to the future and he could see Eddle stationed on Poseida, Kutt in the Covernment, and himself at work in Medical Headquarters. What a teaml

Kutt spoke, his words breaking into and bursting the bubble of wishful thinking. "There's nothing you or I can do. There are too many of them, and, besides, they have it figured out that because they are older, they must be right."

"Yes, isn't that funny? Two older people may disagree with each other violently—but each still feels sure he must know more than the rest of us, just because he's lived a few years longer." "Well," Kutt sighed, "what can you do?" Then, changing the subject, he smiled and asked, "Now, listen, just because your visit is over and you're going back to your base, that doesn't mean we're not going to see each other, does it?"

"You bet it doesn't," Bill answered emphatically. "I'll have plenty of spare time, and--with your permission-I intend to spend most of it right here."

"Wonderfull Come down as often as you can. By the way, what sort of work are you going to be doing here? Or are you going to work at all, since this is your vacation?"

"Sure I'm going to work. In fact that's why I was so anxious to visit your planet in the first place. Since space medicine is my field, wouldn't 1 be foolish to pass up the opportunity to study here? I hope to continue some special research work I was doing, to."

"What sort of research?" Kutt asked, interested.

"For one thing, cosmic radiation. I've already completed the C.R. course, but I'd like to push it further. My big project is to find the antisuss drug."

"What in cosmos is the antisuss drug?"

Bill laughed at Kutt's bewilderment, and said, "The real name of it is the antisuspended animation drug."

"Oh," Kutt said gravely. "Well, you've cleared that up. Now, just one more question-what is the antisuspended animation drug?"

Bill grinned. "It's like this. As soon as the spaceship problem is solved, the big brass is planning a

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flight into real outer space. Clear out of our little universe. No matter what speed is finally attained, it's going to take a long time to get anywhere. After all, we consider a star only one light-year away to be fairly close in. So, even if our ships traveled at the speed of light is would still take a whole year to get to one of these nearby stars or their planets, if they have any, right?"

Kutt nodded silently, and Bill went on, "That's where suspended animation comes in. We can induce that with a drug that has already been perfected. Here's the way it works. Once out in space and faxed on course, the erew swallows a pill that has been worked out for them, and they go to sleep. Not a sleep as we know it-their entire metabolism slows down to a whisper.

"That way, they need no food, other than what was in the pill. They need an absolute minimum of air, because their breathing and pulse rates are barely active. They don't get bored just sitting or lying on their bunks on long tedious trips—and best of all they don't age."

"You mean they stay the same age all the time?" Kutt asked incredulously.

"No, they age somewhat," Bill explained, "but at a very reduced rate. For instance, suppose a crew were to make a flight to a point five light-years away. That would be a round trip of ten years. Without the drug, how many such trips could a man make in a lifetime --even assuming he didn't go batty from sitting in a chair for so many vears?" "Not many, that's for sure," Kutt murmured.

"With the suss drug," Bill continued, "he would be completely oblivious to time, and when he returned his whole physical structure would have aged maybe six months."

"That's terrific!" Kutt exclaimed. "You say you have the drug now?"

"Oh, yes, We've tried it on all sorts of test animals, and even or men in minute doess, but the sang is this. Suppose you prepare for the five-year trip. You're out in space. On course. You take a 4 five-year plil. You're flying on a beam, under control of your home base. As you usleep soundly, conditions it change and for some reason or other your flight-control offlere bast, home deduise hit has to pully you in. You crew are fast asleep and will remain that way for five years."

Kutt laughed uproariously. "That would be funny," he guffawed. "Boy, I can think of several people I'd like to see that happen to."

"It would be funny all right," Bill agreed, "but not very useful. So that's what I'm working on-an antidote to reverse the procedure in case of need. So far, it hasn't been found, but I'm hoping to continue my research and, who knows, someday I might get lucky."

"Wow, that must be exciting! Imagine working on something that might change the whole course of history,"

"In a sense it is exciting, I suppose, but mostly the

work itself is tedious. You try one thing after another, and then limites combinations of the thingy soviet tried. You have to keep detailed records of everything you do, then conduct the tests, find you're failed, and start all over again with a new approach. It can get you down at times, but if you ever little worth-while. If you don't, 'he concluded,' at least you can fel you out di your best, and you record it will help some other researcher, because the thousands of test failners you're had need near were be respeated?

"I wish I had a talent for such things," said Kutt wistfully. "Any kind of scientific work has always fascinated me. I guess I'm just not the type."

"I can't imagine any more important work than government," Bill said sincerely. "After all, medicine only helps men to live longer, but without government they'd be just savage tribes of anarchists.

"Speaking of governments," his voice rose shrilly. "Leapin' Libra, do you realize how late it is?"

"We have been here an awfully long time," Kutt answered, stirring himself, "but there's so much to talk over, time seems to race by."

"It sure does," Bill agreed, jumping to his feet. "I forgot all about it. I have to get back and thank your father and say good-by and report back to the base. Major Keller is probably waiting for me now."

"Just tell him you're arriving fashionably late," Kutt laughed as they both hurried to the Palace. "It's an old Foseidan custom."

Chapter 8 Compound 5083

LL CHRCERD into the base and was interviewed by Major Keller, who wanted to be sure that everything had gone well. It was amazing how anxious these military men were to avoid even the slightest uppleasantness. A long interrogradin sectriained that nothing untoward had occurred and that Bill had a standing invitation to return to the Palace-a sure sign. Deln had been well pleased. Major Keller and his stafi secmed preathy relived.

Later that evening, Bill entered the reading room of the officers' club, where a number of justice officerlatorduced themselves and proceeded to pump him about his stay at the Palaco. He answered their questions as politely and noncommittally as possible, and was afraid that he left them thinking him quite doil. He have it was viser not to make his private optimions generally known, however, they would certatally be written off as the errors of an impressionable youth.

He was glad when Major Keller spotted him, and

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the two went to a corner of the lounge, where the major brought up the subject of Bill's career. When he heard of Bill's eagerness to continue his research during the remainder of his stay on Poseida, he was elated and immediately promised to assign him a completely equipped bench in Laboratory #2.

"I wish you every success, lad. Heaven knows we need plenty of work in both C.R. and antisuss. I'll sign an order tonight authorizing you to take out supplies from the dispensary."

As Bill prepared for bed that night, a pleasant, happy glow seemed to envelop him. The warmth of Kut's friendship and the thrilling anticipation of having his own laboratory bench to work at wafted away all the problems of the day, and he looked forward to the morning with uncontrolled delight.

The following day, Bill was up at dawn. He had not the least desire to linger abed, but jumped out almost as soon as his eyes opened. He splashed through a hurried shower, dressed, and was off toward the mess with a springy step.

At breakfast he slowed down his impatient pace a bit when he saw that the clock gave him a full hour before he could reasonably enter the laboratory. After all, if he got to the place before eight o'clock, the orders assigning the bench to him night not have arrived, and he would have to wait around under the supplicious eyes of the guard at the entrance.

When, finally, he had just enough time for a leisurely walk to Laboratory #2, he downed the reCompound 5083

mainder of his milk at one gulp and strode out the door.

As it turned out, Major Keller had left the papers in order when he weat nound on his final inspection trip at michight, so there was no difficulty. Bill was skown to his bacoh, and he marvelde at the difficiency with which it was set up. Beakers, test tubes and all the panaphemalia he might concedvally need were nacked neatly in hult-in receptacles. The back of the bench was lined with small cages, where the guinae pigs for his experiments could be kept under his observation.

Other similarly equipped desks were ranged about the large floor, and at one end a counter set into an opening in the wall served as the dispensary. Here Bill could order every imaginable chemical merely by filling out a receipt form. Here, too, the guinea gigs and other test animals could be obtained.

Bill put the papers he had brought with him into the spring clip on his desk and, pulling a pad of order hlanks from a rack at one side, he sat on the tall stool and furrowed his brow.

The next few days passed in a concentration on paperwork. Bill had to review hile work up to be present so that he could plan his experiments. Finally, he was completely caught up, and he supples he had ordered were stowed nextly in hier proper places. He grabbed a standard research form and where it stail "Mane of Researcher" he proudly wrote "William Hudson" in hold letters. He filled in the nature of the problem being investisated, the

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proposed method of procedure and the identifying number assigned to his project. Where it said "Test Number" he slowly and thoughtfully wrote "One."

Then he got to work. He ground powders in his mortar and mixed liquids. He measured and calculated and measured and mixed again. Extracting his final distillates, he injected them into the test animals and set up an observation schedule.

Once he had made his injections, his workload eased off and he felt entitled to a little time to himself. Leaving instructions with the laboratory technician to continue observations and to call him if anything unusual happened, he headed for the beach.

A group of Poseidans was frolicking offshore and, looking for Kutt and not seeing him, Bill sat doub to watch them. Shortly, one of the group detached himself from the others and came glidhing through the water toward him. Bill watched as the Poseidan, whom he was sure he had never met, emerged from the water and moved un to him.

"You Bill Hudson?" the Poseidan called out.

"Yes, I am.

"Kutt asked me to keep an eye out for you. If you'll wait here, I'll go call him."

"Thanks," Bill shouted, surprised, as the Poseidan slipped beneath the surface again,

Bill waited a few minutes, scanning the water for a sign of his friend. Then suddenly with a great splash the seas parted and Kutt burst through and landed on the beach. He squatted, dripping wet, beside Bill.

"Halloo, halloo, halloo!"

"Well, hil" returned Bill, somewhat taken aback by this enthusiastic if unorthodox greeting.

"So out with it, man, tell me," cried Kutt, who was obviously in good spirits, "did you find out all about cosmic radiation and did you discover the antisass drug?"

"It's the antisuss drug and, no, I didn't discover it," Bill smiled. "And no one knows all about cosmic radiation. How about yourself? How have you been?"

The two friends chatted, each filling the other in on the events of the past few days.

Inevitably, the conversation driffed around to the current crisis and Bill said, "You know, Fue been thinking, It seems to me your father could do a great deal toward dispelling the runnors and wild stories that are being circulated on Earth. If he would make a trip down there and appear in person at the next meeting of the Concourse, he could make a speech thatwould end mean and from the theorem of the theorem of the concourse, he could make a speech thatwould end mean and the theorem of the theorem of the concourse of the theorem of the success with his comparing of form is the silence with which Delu meets all the attacks of Glussan and his banch."

"Tather would never do that," Kutt said positively, "To begin with, if he ever answered one of their reckless charges, hed have to spend all his time answering every allegation Clussan could dream up. After all, if he proved one charge a lia and then didn't answer the next one, people would think he had something to hide." "I suppose that's true," Bill agreed reluctantly. "Still, Delu commands a great deal of respect among the people at home. He has a reputation for great wisdom and I'm sure he could make them listen."

"Do you think the good Proctor Clussan would just lie still and the coain, reasonable truth take hold?" asked Kutt with a soort. "Not on your life! Even more than that, Fahred doesn' want to beg for peace. He asys nothing would be worse than to appear weak and have to accept whittever crumble that, a gapper weak and have to accept whittever crumble that, a Barbi position, and as far as a our weaking's corrend, he'redying on the Tower. If houtilites should break out, ho'll lip a switch and ..."

Bill shuddered. "It's pretty grim. And yet that would not necessarily end a war," he added. "After all, we have bases on the Moon and other statellites, and on this planet, too, for that matter. They couldn't all be immobilized instantaneously--and they'd retaliate at once."

"Sure they would. But you know the old saying, cut off the head and the arms die."

"Funny you should put it that way. Eddie's father, the general, said almost the same thing," Bill said, shaking his head. "Whichever way it goes, there'll be a horrible slaughter on both sides if war actually breaks out."

"It would be terrible. Simply terrible," Kutt said in a low voice. "I wonder what would become of us. You and me. I mean."

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They sat there in silence a few moments, contemplating the terror a war would create. Two highly developed worlds, each armed with weapons to stagger the inagination, could cause a holocaust. Peace had prevalled for so long that most of the newer instruments of war had never been tried on a large scale. When they were unleashed, the entire solar system night be affected.

Finally, Bill slapped his knee and broke the silence.

Enough of this morbid stuff. The way we're carrying on, you'd think the fate of the universe lay in our hands. I'll tell you what, if things get bad, we'll each take hundred-year suss pills, crawl into a hole, and not wake up till it's all over."

"Hundred-year pills? That's a long time. Is there a hundred-year pill?" Kutt asked incredulously.

"No," Bill laughed, "I was exaggerating. I only mean that since we can't do anything about it, let's forget it and turn to more enjoyable things."

All talk of trouble and crisis and war was turned aside as they enjoyed each other's company.

The next several week's found Bill extremely buyy. His resarch project increased in tempo as experiment followed experiment. As each failure was recorded, a new test took its place, until they overlapped. Before tests on the latter batch were completed, a fresh compound was started through the routine. Spare time, which became progressively exercer, was sponwith Kut, and Bill grees to prize the few hours he could devote to his friend. Evening, after the lab-

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oratory was closed, he would corner medical men in the officers' club and extract their views on cosmic radiation, making notes which he hoped to compile later into a reference volume.

Bill's bench at the laboratory no longer had the fresh, neat look it had possessed when it was first assigned to him. To an outsider, it presented a façade of chaos, but to Bill, pushing his project forward with a dedicated fervor, it represented a sort of orderly disorder.

The officers at the other benches, immersed in their own work, respected this young interes and his capacity for driving hinself on by what at times seened sheer will power. The general workers and the laboratory technicians admired his determination and were anxious to help. Even the goldbricks, who were expert at disappearing when a desire for their services appeared immittent at the other benches, would drop by and ask Bill if there was anything he wanted done.

At one point, Bill walked over to the dispensary counter and requested six more guinea pigs.

"I'm sorry, sir," he was told, "but we're waiting for the next shipment. Right now we're fresh out."

"Oh, nol" he exclaimed in dismay. "You can't be. This will set me back days." And days were getting more precious, he thought. He was to leave Poseida at the end of the summer, and the weeks were flying by.

"I'm awfully sorry, sir, but the demand recently has been well above normal and our supply is

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exhausted. We're expecting replacements any time now," the orderly added brightly,

Bill was crestfalles. It is have that the above-normal demand for guine pips could be attributed at least partly to his experiments, but he had not forescen a shordage. If anything like that was impending, be should have been told. Funstrated and chagrined, he used to an about phalt. In desperation, he turned again to the orderly, who had remained at the counter, a look of futfle sympathy on his face.

"Don't you have even one?"

"I'm afraid not, sir. You use the two-year-olds, don't you?"

"Yes," Bill answered absently. Then a ray of hope struck him and he asked excitedly, "You mean you have others?"

"Just the young ones. One month, six weeks old." His mind raced. Normally, in defacts work such as he was doing, one used test animals of the same age group, to eliminate as many outside variables as possible. And yet, if one could establish a formula to stablize the differential . . . one could run pilot tests to check the formula . . . it might work! It was certainly worth a trial.

"I'll take six of them."

The orderly looked puzzled. He knew you were not supposed to change in midexperiment, and he prided himself on the way he kept track of what each workbench was using.

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"But . . .'

"Six of them," Bill repeated with finality, looking the orderly square in the eye.

"Very good, sir. Please fill out the form while I get them."

With a shrug of resignation, the white-coated orderly disappeared into the back of the dispensary.

Bill took cheerful possession of the tiny animals and carried them carefully to his bench. He was glad his experiments would in no way harm these babies. The method of air injection under high pressure eliminated the use of the old-fashioned needle, so there was no pain attached to this operation.

He was aware that the introduction of immature guinea pigs might interfere with obtaining correct results, but he prepared a control factor and set to work. At worst it would only mean that the test results would have to be thrown out. Even that was better than just sitting around idly, awaiting the arrival of the older animals.

Late in the afternoon, Major Keller came around on his regular toro of inspection. He welled through the entire haberatory, stopping at this desk and that, chatting pirely with the personnel and in general taking in the situation. He parced at Bill's bench and asked if anything new had developed. Had the experiments shown any trend? Was verything proceeding statisatorily? Bill answered the routine questions and was given a few words of encouragement.

As the major crossed behind Bill's bench, his attention was caught by the little animals, each in his own

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pen. He stooped to look at them, then straightened up and chuckled.

"Are these decrepit old things the best you could do," he smilled, "or are you working on problems of old age?"

"Well, those were the only animals available, sir," Bill replied apologetically. "You see, they ran out of adults and I decided to continue the work on immature animals until the next shipments arrive."

"Ran out of adults? Immature animals?" the major asked, puzzled. "Why, these patriarchs are so ancient, they should be put out to pasture."

"Oh, no, sir! They are just four to six weeks old."

"Now look here," the major said, fixing Bill with a steady eye. "Each man here conducts this own experiments and I don't know most of the time exactly what work he is doing or what results are being attained. I don't question him to olssely, because I feel it is better to let a scientist I dollow his own paths without too close a serutiny. But that doesn't mean I an more to this business. I certainly can recognize an old guinea pig when is see one."

Bill was polite but he stood his ground. "I'm sorry to contradict you, Major," he said, "but I requisitioned those guinea pigs just this morning."

He put down the test tube he had been holding and walked around to where the major stood in back of the buench. As he reached the cages, he started to point out the obvious marks of extreme youth. "You see, sir," he began, and then froze. All six guinea pigg were wrinkled with age! It was impossible—and yet these were indeed ancient animals. "But . . ." he stammered.

Major Keller smled tolerantly. "Well, maybe they had a hard life," be murmured, and then, noticing Bill's dumfounded expression, he added, "I think you've been at it too hard, Bill." He patted the boy's shoulder. "Take some time off and relax. There's a limit, you know." With another pat on the shoulder, the major turned and strode out the door.

Hardly aware of the major's departure, Bill stood starting at the cages. Then the speel book and the knelt, feverishly opening each cage and eramining the animal inside. The little tags which had been attached were his, all right. Slowly he returned the animals to their pens and walked around his bench. He climbled onto the stool, placed his efboxs on the beench and buried his face in his hands. He had to think.

The major was wrong. He wasn't overworked, he know what he was doing. It was just that the result was unexpected. His thoughts fell into place, and, as he reviewed what he had done that day, the conclasion formed in his mind that this was something of tremendous importance. He grabbed a pad and made some quick calculations. Then he hid out at test plan. If his conclusions were correct this was going to be bid

He requisitioned twelve more guinea pigs and treated them with the same solutions he had used earlier in the day. He made careful note of their physical condition, heartbeat, pulse, etc., were typi-

Compound 5083

cal of young guinea pigs. He established the time and recorded each step with great accuracy. Then he ordered sandwiches and settled down, prepared for a long vigil. He arranged the cages on the table in front of him so that he could watch each animal at all times.

Every hour he gave each a complete physical examination, and, as the figures on his pad grew into a long column, it became apparent that his theory had been right. These guines pigs had been given a vastly increased rate of metabolism. Like mayfiles, they were in the process of living out a normal life cycle within the space of a few hours.

By morning, a haggard but very happy young man greeted Major Keller on his morning inspection.

"Good morning, str." he boomed out cheerfully. The major regarded his unkempt appearance, the sandwich papers crumpled in a corner of the bench, the whole desk top strewn with cages. His eyes traveled from Bills tired but joyful face to the wizened guinea pigs, and back again. "Good glory, lad." he exoloded. "have you been

"Good glory, lad," he exploded, "have you been here all night?"

Bill nodded.

"Playing nursemaid to these . . . these antiques?" he sputtered unbelievingly.

"Twelve hours ago these senile guinea pigs were just a few weeks old, Major," Bill announced in a proud voice.

"What!" The major was convinced the boy had cracked. Overwork, no doubt. It was a pity. The lad had shown so much promise. He was about to signal to his aide, when Bill started to speak.

He explained carefully what he had been doing. Without hurry, he reviewed the entire night's work, and when he had come to the end of his story and Major Keller was intentify examining the sheaf of papers Bill handed him, he concluded, "So you see, sir, insamuch as the symptoms of old age appeared in the correct sequence and at the right proportionate time, and the only physical defects apparent are those of genuine old age, it appears that Compound 3068 is equable of inducing an increased metabolidue rate without harmful side effects. In short, I believe Compound 3068 is the anatisus aftrangel".

Chapter 9 An Unexpected Trip

Ann KLLLER looked up from the papers. His voice trembled with suppressed excitament as he said, "It looks very much as if you've hit it, Bill. Now I tell you what I want you to do. Get over to the mess and have yourself a good hot meal, then hit the sack and sleep yourself out. When you're fresh, I want you to come back here and review the work you have just done and write up a complete report.

⁶ While 'you're away TII see that none of your equipment is distubted, and TII have three more banches assigned to your control." He looked around the room, then pointed. "spicro, over there, Lowrie and Ress. All good men. TII ask them to shelve their work for a day or so to help you. I've got to have that report as soon a spossible, because ... well, when you bring it over to my office TII fill you in on the background, and you'll understand the rush."

"I can start on it right away, sir. I'll catch up on my sleep when it's finished."

"No, no. The report won't mean a thing to me or

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anyone else unless it contains not only your work of last night, but a complete check of every phase. It's going to tale weeks, mayle months, to know whether we have a completely reliable antitus drug here. The first and most important step now is to have a through basis for future work. I well feed a lot more confident if your final tests are conducted when your mind is rested and fresh. With Spitcen and the other two on it, too, your report will qualify as the official document."

Bill understood the major's position and readily agreed. He did the briefest possible cleanup job on his bench and left the lab. The special mess pass the major had given him entitled him to order any meal he wished, regardless of the hour, but even his favorite (ood-teak and french fries—had no taste for him. His mind was whithing too fast for the food to make any impression.

Surprisingly, he found that he was quite sleepy now that the initial excitement had passed. As soon as he had finished eating, he headed for his quarters, where he dropped off to sleep almost before he had drawn the cool crisp sheet over his tired body.

When Bill awoke, dusk was settling outside. After his first confusion, memory flooded back and he sat bolt upright. A quick shower, a hasty struggling into clothes, and he was on his way.

At the laboratory, the guard recognized him at once and put in a call for Rees, Spiero, and Lowrie, who had been keeping themselves ready to help him. They hastened over and congratulated Bill on his achieveAn Unexpected Trip

ment. Then the four held an informal conference and established a work program. In order to provide the most impartial conditions possible, it was decided that the three men would do the actual work, while Bill compiled and computed the figures they gave him. They chose control animals into which thory injected inert solutions, others into which horking was injected, and the final group which received Compound 5083.

The four plunged into their work, and as the hours flow by and the figures started coming in, Bill could see his original findings being confirmed. After the last test was completed and the final mathematical computation concluded, the four met around Bill's cluttered bench. All the entries were checked and doublechecked, and finally the report was drawn up and signed by all of them.

Bill extended his hearty thanks and shook hands all round, then with the final report in a large envelope under his arm, he headed for Major Keller's office. It was almost eight o'clock in the morning, and he intended to leave it on the major's desk so that it would be available to him when he first reported to work.

When Bill reached the outer office and found Lieutenant Burns on duty, he asked the officer to place the envelope on Major Keller's desk.

"Why don't you go in and give it to him yourself?" the lieutenant suggested.

"Oh, is he here already?"

"Well, I came in over an hour ago, trying to get the jump on him. He's been looking so worried recently and working so hard, I thought I could clear up a few things for him before his arrival." The young officer shrugged and spread his hands in a gesture of futility. "He'd been here for an hour before that. Yes, you'd better go in and take the report to him personally. He'll be glad to see you," he confided.

Bill thanked him and knocked on the door.

"Come in, come in," the familiar call sounded through the panels,

Bill walked in, and the major looked up from his desk. He had been talking into the speechprinter, which automatically translated his spoken words into neat type.

He pressed a button to cut off the dictating microphone, then said, "All set, eh? How did it turn out?"

Bill handed the major the envelope and he extracted the report. Letting his eyes run over the sheets of paper, he picked up the highlights and then read the conclusion carefully. He smiled as he looked up.

"We'll done, Bill, Really we'll done. This checks out vary niccly. There's a lot of work still to be done before we can pronounce it safe for human consumption. We'll have to work out doauges and probably convert it finto a powder that can be compressed into table form, but the big job is done. Professor Mercer is going to be awfully proud of you when you get back. I'm proud, too, son."

"Thank you, sir," Bill answered, feeling very happy but a little uncomfortable at the direct praise. An Unexpected Trip

"Now then," the major continued, "how do you feel?"

"Just fine. Really fine, thank you."

"I mean with your being up all night . . ."

"Not sleepy in the least. Really, sir, I slept all day yesterday and I couldn't sleep now at all."

"Good, then. Sit down, I want to talk to you."

Bill took a seat and waited expectantly. Major Keller cleared his throat and seemed to be choosing his words carefully.

"You've been doing a great deal of work in cosmic radiation?" It was a half-statement, half-question.

"I've completed the course, sir, and done postgrad work."

"Yes, I know. I've looked up your academy record. Now answer this. You are presented with a case of overexposure to C.R. How do you treat it?"

"Well, I would first determine to what extent the overexposure had occurred."

"Yes, of course, of course. Let's suppose it was rather heavy. To the fifth degree, let's say."

"Fifth degree?" Bill's cyclrows raised and he pondered a moment. "To begin with, I would start the standard C.R. shots. The patient would be conficed the first day, Bland dict. Then, if the patient's schedulo permitted, a close observation to continue and the shot schedule to be maintained, I would permit hin a limited freedom of movement. No hard labo, hut..."

"Many doctors would disagree with you. They

would insist on the patient's being confined to bed throughout the period of treatment. Perhaps as long as a month."

Yes, I hanov, sir, but I have not found that any significant improvement occurs when the patient is conflued. To the contrary, a long period of inactivity actually scenes to slow down recovery, due to a general weakening of the body when there is complete lack of exercise. The patient's meant attitude is also apt to be adversely affected by enforced idlences." Bill was a bit pazeld by the informal quick he was being given, but this was a subject which intersteed bins. "Good, Gaod. I had haved hat would be your

"Good. Good. I had hoped that would be your viewpoint." The major leaned forward and lowered his voice confidentially.

This is the situation. We have just lost another XL ship Xanibod, hust like the rest of hem. Glussa and his gang are crying for blood and this time it looks as if they might nacceed. In any case, there is to be a meeting of the World Concourse next week, and from what I can gather if sgoing to be a showdown. General DeVere has ordered me to attend. For some reason I can if fathom, they want a melicial man present, and the general will remain here to implement any decision reached by the Goncourse.

"Now here comes the problem. Two days ago, in making a routine flight to gather cosmic material, I'm afraid I allowed myself to be exposed to a bit more radiation than I had planned. To be exact, I have just concluded an examination which showed an exposure to the fifth degree." "You, sir?" Bill asked, wide-eyed. "Then you are the patient you were speaking about!"

"Eacity," Major Keller answered, looking a bit ashaned of hinself." I should have known better, but ... well, no matter. The important thing is that I have to attacul this meeting. You know the old saving that a doctor who treats himseff has a fool for a patient. I'll want soncose around to treat mes. Someone who word' feel that I'm millifying all his efforts if I continue to work and attach the sessions. I shall have a saite assigned me at Headquarters which can be converted into a sort of hooginal room, so that I can continue under treatment and observation. I will naturally have work to do between sessions, so I shall want somebody whom I can trust completely. The fact is, I have asked to have you assigned. Do you want the job?"

"Oh, yes," Bill burst out. "Yes, sir! I mean, of course!"

The impact of this news was double-barreled. On the one hand, he felt concern for the major's health which was to be put in his charge. On the other hand, this meeting carried a frightening portent. There was no way he could influence the Concourse, he knew, but he was glad that he would be receiving firsthand news of developments.

"Fine. In that case, I'll want you here tomorrow night at nine o'clock. We'll take off at nine-thirty."

"You mean we're going back to Earth tomorrow night?" Bill asked in surprise.

"Exactly. I'll want as much time as possible to prepare for the meeting. We'll travel by regular passenger service so as not to cause any undue interest in our movements. We'll leave without fanfare.

"Needless to say, you are to consider yourself under military security from this moment on."

"Yes, sir," Bill said stiffly.

"Now, regarding my treatment. I've already given myself the preliminary shots, so check with me this evening. You can look me over again in the moming and then just before takeoff. Spend your remaining hours here as you like, but be ready on time-and nemember, no breach of security, even by indirection."

"Tll remember, sir. How about seven o'clock this evening?"

"Fine. I'll meet you at the dispensary at seven."

Bill walked back to his cottage. Things were happening with blinding speed. One thing piled up on another so fast, it hardly gave him time to think. Suddenly, the weariness of the past few hours descended upon him and he put off thinking about anything. He fell into a deep sleep that did not allow him to dream.

He awoke refreshed in about five hours. He dressed and started his packing, leaving out just the things he would need the next day. At six o'clock he went into the messhall and ordered dinner.

He considered asking permission to see Kutt the next day, but decided against it for fear he would be refused. If he disobeyed a direct order he would be in real trouble. On the other hand, merely paying a call on a friend of his would not be interpreted as a breach of security.

Promptly at seven o'clock, he walked into the dis-

pensary, where he found the major waiting for him. He conducted a thorough examination, which showed the major's reactions normal considering his exposure, and proceeded to administer the scheduled shots. He checked to make sure that the major was adhering to the standard diet, and made an appointment for the following morning at nine.

Bill whiled away the evening hours at the officers' club. Several of the members came up and remarked that they had heard he was doing important work on the antisuss drug. He accepted their congratulations graciously but, not knowing how much they knew of the results, he volunteered nothing.

In his moments alone, Bill thought of the coming trip home. He looked forward to seeing Eddie Watkins again. They would have a lot to talk over. Maybe Eddie would know something of what was going on. After all, General Watkins must be in on it. At the same time, Bill felt very bad at having to say god-by to Kutt, and not being able to explain.

He turned in at ten o'clock, and fell asleep thinking that by the same time next day he would be flashing through space toward Earth and home.

The next morning after breakfast he met with the major again, and, following an examination, he administered the treatment. He was glad when he was able to leave without being asked what his plans for the day were. He headed immediately for the beach and was very pleased to find Kutt waiting there.

"Hi, stranger," Kutt greeted him cheerily. "Glad you could make it."

Bill looked at him, puzzled. "How did you know I was coming down today?" he asked.

"When I heard you were leaving this evening, I knew you'd be coming to say good-by,"

"You knew I was leaving? How?"

"Father mentioned it," Kutt answered airily. "I don't check his sources, but I guess they're pretty accurate."

"Then you know all about why I'm leaving so suddenly and everything?"

"Well, not everything. I know there's to be a meeting and you're going with Major Keller. What the result will be, I don't know any more than you do."

"Oh, Kutt, isn't it awful," Bill moaned. "Who knows what those lamebrains will let themselves be stampeded into doing."

"We must have hope," Kutt returned. "Nothing has happened yet and maybe nothing will. You and I are powerless to intervene; that's what makes it so hard. Believe me, if there were anything, anything at all that I could do to set matters right, I'd do it."

"So would I!" Bill said emphatically, and he meant it.

They spent most of the day together, each trying to cheer the other up, but each feeling the leaden heart that comes when friends are parting. At last the time came for Bill to go, and with renewed promises of evenlasting friendship they said a final good-by.

When he reached the crest of the hill and was about to pass out of sight, Bill turned and waved to Kutt, who was lying in the shallow water. He saw the

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answering ann raise out of the water. He paused a moment, then abruptly he turned again and walked down the other side of the hill.

For the next few hours he was very busy. He visited the laboratory and cleaned out his workbench. He carefully bottled the remaining Compound 5058 and packed it, along with his copy of the report and his notes. By the time his clothing and personal belongings were packed, it was dimertime.

Immediately after eating, Bill went to the dispensary and waited for Major Keller. When the major arrived, he submitted to an examination and got his shots. Rolling down his sleeves, he walked out of the building with Bill at his side.

"I've had your things brought from your room. They're being loaded now, so we can just walk over to the field and board."

As they walked in the direction of the ship that was to take them back to Earth, they chatted casually. At one point, Major Keller asked Bill how he had spent the day.

"Oh, I got my things together. I saw Kutt-and that was about all," Bill answered, hoping the subject would be passed over.

"Saw Kutt, ch?" the major probed. "Did you mention that you were leaving Poseida?"

"I never brought the subject up," Bill replied, knowing that his answer was misleading; but, at the same time, it was not technically a lie. Kutt had brought the subject up, not he. It would be difficult to explain to Major Keller why it was that talking to Kutt could not be considered a security breach, Luckily the conversation did not linger on the subject, and soon they came to the edge of the field.

A few works to the sentry cleared them for entry, and Leutenna Hums came running up to the gate. He had been supervising the loading of baggage and the elearnace of the voluminous papervork. He greeted both the major and Bill and led the way to the ship, threading a path through and around the vehicles buzzing amply on their appointed tasks, electrical and the second second second second second electrical and the second second second second second electrical and the shorts around its base.

As they reached the ramp, Lieutenant Burns shook hands with both of them and wished them a pleasant journey. Major Keller thanked him for the efficient way he bad arranged for everything, and the two officers exchanged a crackling salute.

Bill and the major proceeded up the ramp. As they stepped through the hatchway, the copilot smiled and welcomed them aboard. He showed them to their seats in the already half-filled cabin.

In a few minutes, the outer door pressed itself closed and the pressure machinery could be heard. A tapping noise came from the central cabin loudspeaker, followed by a voice.

"This is Captain Gray speaking. Welcome aboard. I know that no one here is making his first trip, in view of the direction this flight is taking; however, I would like to review a few points." An Unexpected Trip

The voice droned on as the seats converted into horizontal beds and the attendants worked their way down the cabin, attaching metal soles and securing the straps.

Capitain Gray's voice stopped, and there was a moment of silence as the nose of the big ship was slowly swang away from the ground. They hung there for a minute and then they were off. The strain of acceleration taxed the straps and pressed itscill against the feet of the passengers for a few seconds and then tapered off.

Bill glanced at the projectograph screen and saw the welcome word, "Spaceborne." They were on their way home!

Chapter 10 The Automatic Sentry

inoucnour the flight, Major Keller seemed preoccupied. He carried a briefcase open on his lap and pored over the papers, making notes here and there. Occasionally, he would set the folders aside and make some brief comment to Bill. Ohviously, the impending meeting weighted heavily on his mind.

Bill here that the major liked the Poseidans and didn't think of them as cennels, but, steeped in the military tradition as he wasa, he would follow orders to the letter. Under the circumstances, Bill could nor reveal the knowledge that he had gained through his taiks with Kut. Instead he lett he major do most of the takking, agreeding politaly where he thought it was desired. Best to keep his mouth shut and his eyes open, then if the opportunity ever presented itself. he put that at of a opportunity event locars of a scattly how he could gate. These didn't seem to be any way he could figure out to change the course of sevents. And yet—he had found the antisus drug, when that 196 The Automatic Sentry

didn't seem possible. So who could tell what the future might bring?

When the bell rang, announcing that the landing was imminent, Bill's heart jumped. Even though he hadn't been away for more than a dozen weeks, he felt it had been much longer. It's always great to get back home, and as they landed, his excitement grew. His impatience mounted at every delay. The endless detail of checking in irritated him, and he was glad when they finally headed for the main gate of the spaceport.

The normal bustle that attended every landing crowded the area of the gate. They were to take the monorail which arched high over the terrain in a graceful line, direct to Headquarters. As they made their way through the crowd toward the gondola which had been lowered on cables from the overhead rail. Bill's pulse quickened to hear his name called.

"Bill! Hey, Bill! Wake up!"

He turned to see Eddie pushing through the crowd. muttering apologies right and left and bellowing at Bill at the top of his voice. He was in uniform, but his can had been knocked askew and in general he presented a comic appearance-but no sight could have been more welcome to Bill.

Maior Keller had turned, attracted by the commotion. As Eddie came panting up, Bill asked the mator whether it would be all right to delay a few minutes to greet his buddy. Permission was granted readily, and just in time, for Eddie had already reached their side.

"Why you old son of a space cook," he roared. "How've you been? Let me look at you." He lifted both Bill's arms in turn, pretending to look under them in a mock examination. "Yep, just two of them. Good. I thought maybe you'd have grown another couple of sets. You know, like Posteidans."

Eddie laughed irrepressibly at his own joke, and Bill wore a wide smile at the antics of his friend. Then he remembered the major standing beside them, taking in the scene. The older officer was finding it hard to keep a straight face.

"Major Keller, I would like you to meet my old friend, Eddie . . . I mean Cadet . . . "A he spoke his sey was caught by the epualets gleanning on Eddie's absulders. They no longer hore the single thin stripe of a cadet. Interdet, the crossed diagonals of a sublientenant announced that the wearer was a commissioned officer. So low in rank that it was hareful recognized, but an officer nonetheless. "Subluemennt Watkins, I guess", be ended lameby.

"That's right, boy." Eddle broke in. "I put received my commission two days ago. Things have been happening, you know. Wait'l 1 tell you ... oggel" Sudden's Eddle realized he had just been introduced to a full major and had ignored him. He broke off in midentonce and manyed to a tettenton, throwing a magnificent salute-which would have had much greater effect if the cap from which the salute originated had not been draped over one ear and in danger of failing of entiruly.

The major returned the salute with a practiced

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casualness, and a smile played around the edges of his mouth as he suggested that Sublicutenant Watkins might care to accompany them to Headquarters.

The three of them climbed into the gondola. The cables raised the car, attached it to the wheel assembly, and, with a gentle lurch, sent them speeding down the track.

At Headquarters, Eddie remained in the visitors' lounge while Major Keller and Bill checked in. They went directly to their suite.

The main door opened into a little hallway, which in turn had one door on the left and two on the right, The left-hand door led to a large room furnished as a combination conference and sitting room. Beyond that was a bedroom, and here the major had his luggage placed. To the right of the hall, one room turned out to be abedroom, with its own bath. Here Bill's things were put down. The other door opened into a miniature blacetary office.

As soon as they had done their preliminary unpacking, Bill wort into the laboratory room and completed an examination of the major. He administered the necessary shots, and as the major was rolling down lis sleeves he remarked that inasmuch as the would have to make a series of calls on his superior officers, Bill was free to do whatever he wanted until evening.

"Don't lose your pass or forget to take it with you," he admonished. "You won't get into or out of the area without it."

Bill assured him that the pass would be with him at all times, then raced downstairs to his friend,

Eddie unfolded himself from the big, comfortable leather chair and rose to his feet as Bill entered the lounge. "So you finally made it," he said.

Bill explained about Major Keller's condition, and that he had had to give him a treatment.

"Oh, ycs, Dad told me about it when he told me you were coming back. But I thought you'd already begun the Concourse meeting, the amount of time you took."

"Well, it's all over with," Bill laughed, "and I've got all day. How about you?"

"Special leave," Eddie grinned. "Let's go over to my place where we can talk."

"Your place? Do you live around here now?"

"Sure. You've never been to World Headquarters before-III give you a rough idea of the layout. Here, look." He publed a piece of paper from the breast pocket of his tunic, and unfolded it to reveal a map. The general outline showed it to be a five-sided area, a nentaron.

This whole region is called World Headquarters. The building work in is the Residence Building, but most people refer to it as the nest. This big thing here," his finger pointed out a large area outlined on the map, "is the Council Building. Those long buildings nest to it are the guard's barracks. These are the storerooms. Communications here. And here, ou see this concern marked off? That's me."

"You mean you're in command of that entire section?"

"Well, not exactly in command. You see that's the

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experimental spacestrip, and I'm assigned to guard duty there. You've heard of the latest disaster?"

"Yes, just a couple of days ago."

"That's right. That's how I got my commission. It was decided that from now on, no one below commissioned rank can even enter the area. So, since Dad had moved into the nest, and they were short of commissioned officers, they upped my commissioning date and I was ordered here. Great, isn't it?"

"It sure is," Bill agreed. "Do you actually live in the area?"

"Right in it. Cot a nice place, too. Ground floor room."

"In that case, let's pick someplace else. I don't have a special area pass."

"Oh, that's okay. I'm allowed to have guests as long as they have a Headquarters pass. Naturally I am responsible-but somehow you don't look like a spy. Come on, let's get over to where we can talk in comfort."

They left the Residence Building, and, with Eddie leading the way, they soon arrived at the spacestrip. It was entirely walled in, the only break in the high barrier being a closetlike room which seemed to be completely lined with steel. There was no sign of a guard, and Eddie pulled no pass out of his pocket.

Bill's curiosity was aroused, and he asked, "What do you do, press a button to call the sentry?"

"No," Eddie laughed, as he pointed at the steel room, "that's the sentry."

"It's empty."

"Sure it is. That's the Sentrac. The automatic sentry. Here, give me your pass. Now watch."

Eddie stepped into the tiny room, and in his normal talking voice spoke to what appeared to be a blank wall.

"Sublicutenant Edward Watkins and one guest." Then, reading the top two lines of Bill's pass: "Medical Cadet William Hudson, Aide to Major John J. Keller. My guest will precede me."

As he finished, he stepped out of the room and told Bill to go in. "Just step right through. I'll be right behind you."

Bill walked into the closetlike affair and stood there wondering.

"Just read off the top two lincs of your pass," Ed called.

He did so, and immediately a steel panel dropped, scaling him off from Eddie and the outside. At the same time, the steel wall in front of him slid upward, and he stepped through the space. He was inside the spacestrip area. He turned in bewilderment, to see that the wall had again dropped into place. In a moment it opened again and Eddie came through.

"That's pretty impressive, all right," Bill said, "but it doesn't seem very effective. Why, anybody could come up and say, 'I'm Sublieutenant Watkins, Open Sesame!"

"Not by a long shot, they couldn't," Eddie laughed. "Well, how"

"I'll tell you all about it when we get to my place, right over there," he pointed. "See, these buildings

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surround the strip itself, and all guards assigned to duty here live in them. If the alarm sounds, every man in the barracks, whether on duty or not, immediately goes to a predetermined spot. Why, a flea couldn't get past us."

They turned into one of the long, low buildings. Just inside the entrance, Eddie opened a door on the right and motioned Bill in.

"Welcome to the Watkins Wigwam," he said.

Bill entered and looked around. A good-sized room, he could see. A comfortable-looking bunk and a chest of drawers were at one end, and across the room, over by the window, stood a table with chairs around it. The two of them walked over to the table and sat down.

"Super," said Bill. "A great layout."

"You like it?"

"Sure do. Now, tell me about that Sent . . , the automatic sentry."

"Sentrac, you mean. It's quite simple, really. The idea is that first you register yourself on the electronic brain. This records the way you look just the way a telecamera picks up your image and transmits it. You realize no two people photograph exactly alike. To an electronic eye, even the look-alikes seem completely different.

"Then it records your voice; again, electronically it can differentiate between two voices that cannot be told apart by the human car.

"Finally, the brain records your smell. Eating onions won't fool it, because it records your individual

body smell. Like your dog-he'd recognize you no matter what you ate, only no dog's nose could match the electronic brain's sensitivity.

You record all this under the supervision of the security officer. Every day he checks a list of those authorized to enter or leave the base, and those tapes are stored in the electronic brain.

"Now when someone stands in the room and says, 'Hello. I'm loe from Kokomo,' the brain searches its file and sees if that name is registered. If it is, it flashes the correct sound, sight and smell to its various senses and checks these against the person standing in the room. If the name isn't registered or if the wrong person is standing there, the alarm sounds. The person in the room doesn't hear it, but we do. When I announced that I had a guest, that fact was recorded. but you weren't admitted until you repeated the information. Now if you were not an authorized person, it would be discovered in the morning, since Sentrac automatically recorded your sight, sound and smell, So you see, it would never have admitted you if I, a registered person, hadn't set you up-and if I set up an unauthorized person. I'd be in bot water. That's all there is to it."

"T have definitely changed my mind," Bill said. "It does seem effective. Wait a minute-suppose some enemy bad you under control, couldn't he force you to pass him in? I know it would be found at check time, but in the meantime be could have completed his mission."

"Aha, a good point. But if my voice is not at normal

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pitch, and under pressure it definitely would not be, the alarm would sound. As a matter of fact, if any of the personnel here bave a cold or anything, they're confined to the area until a check shows their voice is normal. Every now and then some meathcad who's late reporting in comes running up to Sentrae and, out of breath, rice to get through. The alarm sounds and he is immediately surrounded by the entire corps. He finds himself with extra duty for a week."

"It sure sounds foolproof."

"It's as fooloroof as they can make it, and that's plenty. Believe me, we need every kind of protection. The way those Poseidans seem to be able to slip by every obstacle we erect. You know they got to that ship a couple of days ago; right now another one is almost ready for the final test. The XL-35 this one is. They built it, took it apart and put it together again twice. It's just been reassembled for the third time. and you can bet there'll be no sucction of mechanical failure. The test pilot will be picked from the group now practicing. You know they have a dummy control room rigged up in a hangar, and all those test pilots do is practice flying that thing. All day long, they take turns 'flying' and preparing for any emergency. The XL-35 has a new alarm system and, brother, if the Poseidans want to get this one, they're going to have their work cut out for them."

"I gather you still think that Poseidan saboteurs have been responsible for the disasters of the XL models," Bill ventured.

"Well, don't you?" asked Eddie incredulously.

"I do not! I not only don't think so, I know they aren't responsible."

"Billy boy," Eddie said with mock sympathy, "you're sick. Maybe a touch of Poseidan sun. Would you like to lie down till the feeling passes?"

He waved his arm toward the bed, and Bill had to smile.

"To begin with, I met Kutt and got to know him very well. He's . . ."

"I know, he's the guy whose life you saved."

"Well, I don't know about saving his life, but I helped him, and we became very good friends. His father is Delug, and I met him, too. I can tell you that they're not in the least bit interested in our XL ships. The thing is just as much a mystery to them as it is to us."

"You really believe that?" Ed asked seriously.

Bill was in a quandary. He was desperately anxious to tell Eddie all about his talks with Kuth, but he had given his promise never to reveal a word of their secret conversations. He had to content hinself with telling Eddle as much about Kutt as he could without violating his promise.

On his part, Eddle had a great respect for his friend's wisdom, and he sensed that Bill was holding something back. He felt that Bill had discovered something and for some reason didn't want to talk about it, so he didn't press him.

Instead, he said, "You sure sound convinced. Until anyone comes along to prove you wrong, I'll go along

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with you!" Then he added hastily, "Of course, I've got my job to do."

"You don't have to worry about anything," Bill replied earnestly. "You do your job of guarding that ship to the best of your ability. If you see anything suspicious, jump on it—and I'll bet my life that it won't be anything connected with a Poseidan."

Bill felt warmly grateful to Eddie. It was just like his friend to display such loyalty, and Bill was touched.

There was a twinkle in Eddie's eye, as he said, "Of course, I'll go along with you, but I've an idea Glussan might disagree with your views."

"Hmil" Bill spat in disgust. You know, I've come to the conclusion that he has some reason for stirring up this turmoil. I mean a personal reason. If he didn't stand to gain something, he'd never go to all the trouble of making speeches and ranting against the Possidans the way he does. Now this World Concourse meeting. I wish we could find out what his real motive is!"

The boys continued to talk, catching up on what had happened to each of them during the previous couple of months. Then Bill jumped up.

"I've got to get back. Major Keller's probably waiting for me now, to give him his shots."

"Take it easy," Eddie countered. "If we run, we'll kind of confuse Sentrac at the exit door-and you wouldn't want to turn out the guard, would you?"

"I should say not!"

As they walked toward the exit, Bill asked, "Say, how do I get in touch with you? You can always reach me at the nest, but how do I get by that robot?"

"That's easy. Just step into the booth and announce that you are calling for Sublieutenant Watkins. It will relay the information right to my room and the guardroom as well. In either case, I'll get the message-and if I'm on duty, someone will come and tell you."

As they reached the Sentrac, Eddie stepped in and announced the departure of his guest. Having identifield him as authorized, Eddie got out and shook hands with Bill, who then took his place in the steel room. One panel shut him off from his frend, and the other opened up. He walked out and hurried toward the Residence Building.

Chapter 11 Crisis at the Concourse

A JOR KELLER was working at the big table in the conference room when Bill opened the door to their suite. Papers were strewn on the table around him. He seemed tired and worm and barely looked up as Bill entered and headed for the laboratory.

Bill washed his hands thoroughly, prepared the syringe, and was about to ask the major whether he could come in for the examination when the officer came through the door unbuttoning his sleeve.

Completing the treatment, Bill said, "You're a bit run down, sir. Looks as though you'll have to take it a little easy."

The major passed his hand over his brow wcarily. "There's no time for that, I'm afraid."

"You can't tell that to your body," Bill said pleasantly but firmly. "It sort of makes these decisions itself and then you just have to find the time."

"Look here, you simply have to keep me going. As a doctor I agree with you; I know your diagnosis is correct and normally I'd follow your advice, but we're in the middle of a crisis here and I've got to see it through."

"Yes, sir. We'll do the best we can. I take it things aren't going well." This last he ventured as casually as he could. He had no business probing these affairs and he wanted it to sound as much like a statement as a question.

The major took no exception, however. He just shook his head and muttered, "Bad? If they were any worse, we'd . . ." His voice trailed off as he left the laboratory. As he sat at his table again, he called Bill.

"You're going to keep working on the antisuss thing, aren't you?"

Bill's eyes lit up. "Why, yes, sir, if I can."

Sure, You've got the lab, You can order anything you need and there's going to be a corrysman on duty here to help you. So give it as much time as you feel lake. This was very good news to Bill. He had not tooked forward just to hanging around, with nonting to de except for these brief moments moning and evening. With the situation going to pieces all around hinn, he had no with to stand idly on the sidelines, so he took Major Koller at his word and set up an experimental bench, in the laboratory.

His alm was to refine the antisuss compound into a stable, uniform potion. He had to work out a reliable dosage, so that a doctor could presente the correct amount needed to counteract a given quantity of suspended animation. But first he had to determine its fitterss for human consumption. Crisis at the Concourse

There was work aplenty at hand, so when Major Keller left after his treatment the next moming, Bill was glad to welcome Medical Corpsman Brad Short. Even before the corpsman introduced himself, it was easy to see why everybody called him "Red." He announced this fact with a grin and suggested that Bill could save himself trouble and do the same.

"Okay, Red," Bill answered. "Have you had any experience as a research technician?"

"Oh, sure. That's all I've been doing for the last couple of years. I've been with one research project or another for as long as I've been in the corps, sir." He said "sir" as if inquiring whether Bill was a tickler for form and would prefer that military etiquette be observed. Bill's answer was quick in coming.

"You can drop the 'sir,' Red. We're here to do a job and we're going to have to work pretty closely, if we're going to get anywhere in the little time we have."

"Suits me. Just brief me on what you're doing and how I can help and we're in business," Red said, breaking into a friendly smile.

The rest of the day was spent in bringing the corpsman up to date on what had happened, and between them they outlined the following day's work. Bill gave him a list of supplies and told him to bring them in when recorting for work in the mornine.

After Brad had left, Bill set about preparing the laboratory for the project. He was engaged in this when Major Keller returned. Bill stuck his head out the door of the laboratory as he heard the major walk into the sitting room. The older man showed the marks of heavy strain. The lines on his face were deeply etched by fatigue and there was no expression as he slumped heavily into an armchair. Bill found his staring at the base of the wall acress the room. They remained that way for a few memers, hill standing rational acress the room, access the room, access the room, access the room, as also lowing aid. Then he sitted wall be higher that is a start of the site of the site of the start of the site of

"Yes, sir,"

"The pie-brained, misanthropic idiots!"

"Yes, sir."

"What?" The major snapped his head up and for the first time seemed to recognize Bill's presence. "Oh, it's you," he said.

"Yes, sir."

"Well, they are idiots. Why, do you know what those flea-minded addlepates are up to?"

"No, sir. Hardly," Bill replied, not knowing what to make of this.

The major did not normally go around talking about his superiors in such terms and maybe his illness had taken a larger toll than either of them realized.

"No, of course you don't. You weren't at the meeting of the World Concourse." His voice softened and assumed a more reasonable tone. "Bill, I know I shoukh't talk like this to anyone, and especially not

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to a young fellow like you, who might get the wrong idea, but I feel I can trust you and if I don't talk to someone, I'm afraid I'll blow my top. Those vacantheaded numskulls are debating whether to declare immediate war."

"Oh, no!" Involuntarily, the words burst from Bill's horrified lips.

There isn't a man alive who has been through a war. Major Keller continued. They've played at it in manevers but they haven't the forgiest idea what real war is. When they find out that there isn't any umpire to blow his whistle and call off the game at the end of the dw, so they can spend the night sitting around telling each other what geniuses they are, they'l with they handri been so hasty."

"Do you think they'll actually vote war, sir?" Bill asked, dizzy at the thought.

"Who knows?" the major replied, spreading his pains in a gesture of despirit, then went on alowy. "If it hadn't been for General Wathins they might have gone through with it dday, the stopped things by saying that before any vote could be taken the Geneourse would need a complete report on the state of Planet Earth's Forces. Hie wan't prepared to give such a report today but it would be ready for tomorrow's session. He gained us a day, but as to what happens tomorrow ..." He stronged.

"Are all the Proctors in favor of war?" Bill asked incredulously,

"The largest part of them are tectering in their accustomed spots, smack-dab on the fence. A group

of honest, intelligent men, one of whom is General Watkins, is trying to ride out the tempest and swing it to a more constructive end, but a few hotheaded simpletons, headed by Proctor Glussan, are whooping it up for immediate hostliftes. You know the fence-sitters are always pulled along by the loudest noise."

"Isn't there anything you can do, sir?" Bill's anxiety was betrayed by his voice, which was pitched higher than usual.

"No, son, there isn't," the major said weardly. "Im not even a member of the Concourse. Im there only because they want me as an expert witness. They're going to have me testify on something or other but they haven't told me what so far. That's the worst part of it. No matter what those idlots finally decide, I shall be given my orders and TII have no recourse but to follow them."

Bull fought hard, trying to control the surging contons which threatened to detry bit outward calm. A declaration of war would be catastrophic. These men diduk towo of the Poseidan Tower of Life. They were not aware that the secret of Bull's departure from Poseida hal ora been ascert to Doll., But, even aside from the fact that he had been avorn to secrecy by Kut, what could he do? If he should decide to cast aside the restraining force of his outh, would the Concourse, and particularly Portoor Clussan and his henchmen, take him seriously² It didn't seem likely. They would question him as to

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how he had obtained the information he claimed was true. They would dismiss it all as a pack of lies and probably arrest him for having consorted with the enemy, to boot. These were not reasonable men.

The silence was broken by Major Keller as he rose to his feet. "There, there, son, these are not your problems, or mine either, for that matter. Ours not to reason why, ours but to do and die, eh?" the major misquoted. "Now if you're ready for me, shall we get on with the examination?"

"Yes, sir, right away."

All night Bill tossed and turned, skepting fiftully, as the avid news imparted by the major crossed and recrossed his mind. He was up early and extered the laboratory glid of the work awaiting him. At least the could bury his thoughts in such a welter of action that his aching head would forget the larger anxieties. Major Koller joined him briefly for the routine shots and again Bill warned him to ease off, Knowing that his advice would not be taken.

Shortly after the major had departed, Red arrived, carrying two big containes. It less the base down and checked their contents against the list Bill had given him. Everything was in order, and the serious business of the day was begun. As the morning wore on, Red's experience in laboratory proceedure showed itself, and Bill was grateful for the quick, sure assistance which enabled him to proceed at a fat pace.

In midafternoon, Bill poured a carefully measured quantity of white powder into the funnel of the

miniature hydropress and watched as the mold accepted the powder, compressed it and swung open to reveal six round, white pills. He extracted the pellets and held them in the open palm of his hand.

Red stared in awe for a moment and said, "Think of it. Those are the first antisuss pills ever made, and in a few years they will probably be made by the thousands and no one will think anything of ordering them."

"They're the first pills of this type, all right," Bill replied, "but I wouldn't exactly say that they are antisuss pills."

"Well, what are they then? Don't they counteract the effects of suspended animation?"

"That's what they are supposed to do. That's what their ingredients do for guinea pigs,"

"Then they are antisuss pills," Red said in relief. He had begun to wonder if he had misunderstood the whole purpose of their work.

"You can't go jumping to conclusions, Red. We know what the ingredients do. We have compounded these pills according to carefully calculated figures, so that each one is supposed to counteract the effect of one year's suspension of animation in a man. Do they actually do that?"

"They certainly do, if your figures are correct."

"There is no room for guessing. We have to be positive." With that, Bill reached up and took a small phial from an overhead shelf. He extracted the stopper and allowed one of the little rcd pills to roll into his cupped hand. He replaced the stopper and Crisis at the Concourse

put the phial back on the shelf. Holding the red plil between the thumb and forefinger of his left hand, and a white one in the same manner in his right hand, he said, "This red tablet will put me into a state of suspended animation for one year. The white one will, if our calculations are correct, eacatly counteract the effects of the red plil. Now there is only one way to determine whether it really works, sin't there?"

"You don't mean you're going to . . .'

"I am. I'm going to take first one and then the other. If nothing happens and I remain perfectly normal, we'll have definite proof that these are what you just called them, antisuss pills."

"You can't just take them like that!" Red's voice rose in alarm. "Suppose . . ."

Bill laughed at the dismay on the corpsman's face. "Suppose what? Didn't you just say they were antisuss pills? A minute ago you were telling me that they worked."

"I said, 'if your figures are correct.' "

"You don't think they are?" Bill teased him.

"It's not that. They're probably accurate all right, it's only . . . oh, I don't know," he ended lamely.

"Don't you see," Bill said as he turned serious, "somebody actually has to take one in order to prove their worth. If I have made all the calculations and made the pill, how can I ask anyone else to try it, on the grounds that I am afraid to try out my own handiwork?"

Red brightened. "That's easy. I'll try it out. I'll be glad to take the stuff. If it doesn't work, I won't mind sleeping nice and soundly for a year." He stretched and opened his mouth in a long, wide yawn. "Not bad at all. No duty, full pay. I'll take the pill-gladly!"

Bill realized that this flame-haired corpsman was acting the comic merely to cover up a heroic offer, so he smilled as he said, "Thanks, Red. But this has to be my show. Now I'll take a complete metabolism. You keen the record and we'll both check."

After a complete examination, which recorded every phase of his hash metabolism, the energy he was expending in merely carrying out the life process was measured. If, after taking both drugs, it was found that the energy output was lowered, it would be determined that the national argue was not counteracting the induced suspended animation. Any stopping up of his energy output would mean that his antisus pill was too powerful. With everything ready, he drevs agilas of water and, with a smalle and a small shrug, he swallowed a red pill and followed it quickly with a white one.

"Well, we'll soon know," he said.

Red stared at him in a sort of horrified fascination, as if expecting some great change to take place.

After standing five minutes of the relenties gaze, Bull broke the silence. They chatted, making smalltalk in order to keep their minds from dwelling on the experiment which was taking place. Over an hour passed, as the two strained to keep the conversation from drifting toward the subject that was uppermost in both their minds. At last Bill slapped both his knees and said, "Well, this is it. If any change were going to occur, it would have taken place by now. Let's check on it."

Carefully, in controlled excitement, the basal metabolism tests were rerun and the results compared with the original figures.

"It works!" Bill expressed his huge delight simply -a smile played over his features as he realized that there had been no change whatsoever in his energy output.

Red let out a couple of whoops and pounded Bill on the back before regaining a small measure of dignity. Bill restrained the enthusiasm by reminding his helper that because one gill worked one time on one man, it did not mean the entire problem was solved. There at Hi had to be a long series of test, but these could now he turned over to the regular research department. It carefully placed the remaining five pills in a small phala and put them on the overhead helf containing the other drugs.

Together they straightened out the laboratory, putting the equipment back in place, and Bill told Red that he was through for the day. The corpsman congratulated Bill again and told him that he would be in first thing in the morning.

The major came in late that evening. Bill, bursting with his good news, was restrained from talking by the air of complete fatigue the man showed. Major Keller asked Bill to dispense with the examination

and just to give him the regular shot. He explained that no matter what the examination showed, he would have to return to the Concourse meeting early next morning, so skipping this one would make no real difference.

Bill did not add to the major's troubled mind by arguing, but administered the shot at once.

As they returned to the sitting room, the major smashed his fist into his hand and said, "Those erazy fools are going to do it. I really believe they're going to do it!"

"Things still bad, sir?" Bill inquired softly.

Yes, son, they're as had as they can get. I'm afraid. General Warkhus began his report today. I believe he is trying to underplay our actual military strength in order not to add fuel to the fur, but he has to tell the truth, of course, and so far, the mere statement of our forces is inflaming the Clussan group. They're telling all who will listen that we're trong enough to win any war, so that we don't have to stand for any more nonsense. They want to attack immediately.

The meeting was finally adjourned at the general's request, but we convene again in the morning. At that time General Watkins will complete his report, then I will be asked to testify and then . . . and then a vote will be taken. The proposal will be worded to the effect that if it should pass, an immediate and total state of war will exist between Poseida and ourselves."

Bill's heart sank. "Did they tell you what they

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wanted to ask you, sir?" he asked, grasping at a slight hope. "Maybe after you testify . . ."

"No, they haven't told me, exactly, but I don't believe that anything I can tell them would cure their madness. I'm afraid it's hopeless. By this time tomorrow," he lowered his voice to conceal the tremble, "by this time tomorrow, we may be at war!"

Chapter 12 A Momentous Decision

In roo area spoke very little throughout the evening and both retried carly. The many sank into a dreamless sheep of exhaustion while Bill tossed on his own bed. Uader normal conditions, the great good news of his day's accomplishment would have meant rejoicing but all notions of pride and starts faction were swept and/e in the swift turned) of his trendskel thoughts. Time was rouming out. II maywhat' I datas coursed through his tired mind in wild source.

Nothing came from the welter of desperate plans that half shaped themselves in the darkened room, but somehow Bill knew that in some way, if war could no longer be avoided, he would do something. He would not just stand idly by while disaster engulied them all.

The first dim rays of dawn were showing in the east when he finally dozed off, and he was dismayed to be awakened by Brad Short reporting for duty. His first thought was of the major and he rushed into 122

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the other bedroom, only to discover that Major Keller had already left. This was bad. Last night there had been no examination made of the man and this morning he had not had his shot. Cosmic radiation was not a scrious malady if kept under strict control through proper treatment, but let it get out of hand, and it could take a man apart in no time.

Huricelly Bill straggled into his clothes and went into the laboratory. Its prepared a dose and banded a syringe, placing it in a little carrying case. Then he gave Red perfunctory instructions, asking him to tidy up, straighten out the drug supplies, anything just to keep hosy. Carrying the syringe, he headed for the Concourse Building to find Major Keller and treat him on the spot if necessary. On the way over he was not sure whether he would be able to gain admission to the building, but it turned out to be no to Major Keller, was enough to allow him into the building, and garanting the main entrance to the hange Concourse Room itself was none other than Eddle Waldins.

A hurried whispered conversation ensued while Bill explained that the major was in danger of a serious relapse unless he received the contents of the syringe. Eddie told him to go in, but to remain in the observers' gallery, and word would be passed to the major seated below.

"I'm going off duty in fifteen minutes," Eddie confided. "Can you come over to my place when you're through here?"

"Tll come as soon as I get out," Bill answered fervently. "I've got to talk to you. It's most important."

Eddie noddeid and oppend the door leading to the gallery. Bill passed through and climbid the starts. As he stepped into the gallery, he could see that the floor of the house was packed. There was not a vacuat chair in the horsehore-shaped chamber. On the raised platform supporting the visions table, General Warkins sat, leaning forward as he talked into the microphone in form of hims. Bill's exect himself and the starts of faces below him, could not pick out the features of Mayor Keller, so he scated himself and waited for word to be brought to him. He gave his attention to the scenal's words.

..., It is therefore monically true," the voice bounde out of the loudspeakers scattered throughout the Concourse Room, "that our strong point is also our weak point. Since our engines of war were for the most part converted to the use of rhyllium, we have ashieved greater power and increased speed. The scarcity of rhyllium on this planet, however, has created great difficulties in the stockylling of this material. Large quantities are, of course, to be found on Possich, but under the terms of our Matual Trade under the terms of our Matual Trade under the terms of the Matual Strade under densent allowed for export, we have not been in a position to stockling the quantity of rhyllium that would be required in a long-drawn-out period of houtilities.

"The Poseidans inform us, and our intelligence would appear to verify their statements, that they

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themselves do not use this critical element to any great extent, so we may assume that our craft, even excluding the unfortunate XL series, are faster and more powerful than anything the Poseidans manufacture in quantity. However, this would remain true for only such a period as our supply of rhyllium holds out.

"We produce sufficient quantities to operate our entire forces under conditions of peace. Our stockpile has been created entirely by import from Poseida. We must naturally assume that these imports would cease immediately upon the commencement of hostilities and at the same time that our need would be far greater under comhat conditions. I can state to you now, genetemen, that our present supplies of rhyllium would not support an intensive campaign of longer than as months. At the end of that time, our military activities would of necessity be severely cantaled."

Bill's eyes sought out Proctor Glussan, and his intense dislike of the man was doubled when he saw a faint smile curling the fat lips of the leader of the war party.

The heavy-set Proctor pressed the button, lighting the red lamp on his desk which indicated he wanted the floor, and then in his customary fashion did not wait for permission to speak but launched directly into his address.

"Thank you for a very detailed report, General. I'm sure I speak for all of my colleagues when I express my gratitude for your very capable handling of this difficult situation." It was a clever tactic: Under the preterss of praising the general, who was highly respected, he was in fact dismissing him. The whitehatted officer looked about him with a sense of confusion. Although he had intended to add to what he had laready said, he saw that Procetor Glussan had the floor and had no intention of relinquishing it. To remain on the stand unjukly give he ingression that he agreed with what the Proctor was saying and he had the papers from the table in franz of him. he staffic them paper sfrom the table in franz of him. he staffic them has his briefnase and left the stand, taking his place among the delegation of differs.

As Glussan's voice droned through the chamber, a messenger handed Bill a note.

Thanks for your thoughtfulness. I gave myself the shots before I left this morning, so there is no need to worry. If you wish to remain and view these proceedings, you are hereby authorized to do so.

Signed,

J. J. KELLER (Maj.)

Bill read the note and put it in his pocket. He wuntch very much to stay, not only because he withed desperately to know the outcome of this momentous meeting, but because, sitting unnoticed in the visitor' gallery, he could think. He had to straighten on this mind and clear this brain. As the world moved closer and clears to adantity, he would make a last-diffiattempt to avert the disaster. His plan was forming, but he needed time to think it out.

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On the floor, Proctor Glussan was saving, "... In view of the short-term war which we will conduct. the reserves of rhyllium are more than ample. I should be remiss in my duty to this great Planet Earth, my home, if I did not again declare my wholehearted opposition to the very thought of war. If I believed there was any way to avoid this terrible step and still keep our families and loved ones secure, believe me, I would vote that way. But if we vote here today to remain as sitting ducks, waiting for the blow to fall, too scared to take even elementary steps in defense of our beloved families and homes, we could never answer the accusing eves of our children as they are marched off in bondage to Poseida, as they surely will be if we do not have the courage to put aside our personal hatred of violence and vote immediate war to defend our planet."

Bill's stomach curdled as he listened. In his mind, he regarded the Proctor's pious words as shear hypocrisy. He was certain that Clussan had some personal ax to grind. There had to be some reason why he kept hammering on the single theme: immediate war. It was too late now, however, to try to find that reason. Bill feit that the only important thing was to stop the war.

Glussan's voice again caught his ear. "... and to confirm our estimate of a very short period of hostilities, I request that the Chairman now call to the stand Major John J. Keller. Major Keller is our senior medical officer, stationed on Poseida. He is intimately acquainted with the Poseidan physical structure and

I should like to ask him a few pertinent questions for your enlightenment before the final vote is taken."

The Chairman sounded his electronic gavel and called Major Keller to the stard. Bill strained forward and saw the major emerge from his seat, which was just under the overhanging galkery. His military bearing showed through his fatigue, and with shouldeer thrown back he walked to the witness platform, mounted it and should while how as sown in. Then he sat at the table, elsayed his hands in front of him and faced the assembly.

Proctor Glussan activated his microphone again. "Major Keller, does the word psilica mean anything to you?"

"Yes, sir, it does," the major answered cautiously.

"Please tell the Concourse what you know about psilica."

"It is a water-soluble poison."

"Yes, Major, of course, but give us a little more detail. Is it harmful to man?"

"Mildly harmful, yes, sir. In other words, if taken internally in sufficient quantity the effect is poisonous and serious illness or even death may result."

"Then you agree that psilica is no more dangerous to man than many elements he uses every day?"

"That is correct." The major would give nothing away. He would answer questions but only that. He would not volunteer a word. As soon as he heard psilica mentioned, he was pretty sure of the course of the interrogation and Glussan's aim had become clear to him, but he would do nothing to help.

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But there was no way out. Glussan had laid his plans well and knew the answers to the questions he was putting. He was grandstanding it for the benefit of the assembled Proctors.

"Now, Major, what effect does psilica have on a Poseidan?"

"To a Poseidan it is the deadliest of poisons."

"I see. Please tell the Concourse what would happen if a quantity of psilica were suddenly released into the waters around a group of Poseidans, as might happen, say, at the Poseidan Colony here on Earth."

"Well, you realize that would depend on a number of factors-the quantity released, the number of Poseidans in the area, the currents of water, temperature . . ."

"Come, come, Major, let us not quibble. Tell us in plain language what would happen."

Major Keller's temper flashed. "I was not quibbling, Proctor," he said heatedly, "I was merely trying to point out . . ."

"Of course, Major," Glussan interrupted in a soothing voice, "but you see, we are not doctors and it is therefore not easy for us to follow a technical discussion. Won't you tell us, as laymen, just what would happen to a Poseidan who came into contact with psilica flowing freely in the water?"

"In a case such as you have just outlined, the Poseidan would die." Major Keller knew that Glussan was trying to convince the Concourse that all you had to do was dump psilica in the ocean and wipe out all the Poseidans in their Colony. It might work if the Poseidans were caught by surprise, but one couldn't be sure of their complete annihilation. If had wanted to stress the unreliability of this method but Glussan had stopped him effectively. These were Glussan's home grounds and no one untrained in his methods could compete against him here. Even General Watkins had been outmaneuvered.

"Is there any known antidote to this poison, from the Poseidan point of view?" Clussan continued his loaded questions.

"If you mean is there any defense . . ." the major countered.

"As a doctor, surely you are familiar with the word antidote, Major. I asked if you knew of any antidote that could be used by a Poscidan which would counteract the effect of his contact with psilica in water?"

"There is none." Glussan had made his point. He smiled confidently as he thanked Major Keller for his competent testimony and dismissed him.

Bill had followed this questioning intently and undentool what Clussan was doing. As the Proctor talked on, now in low tones so one had to strain to catch his works, now raising his voice in a roar that reverberated throughout the chamber, he unfolded as scheme which made the planned war appears so easy and simple to win that the vote was practically a surantice of victory.

According to the plan, all that had to be done, once the vote had been taken, was to send a fleet of spacecraft to Poseida, carrying large quantities of psilica. At a predetermined time, Poseidan waters, as well as

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those of the Colony here on Earth, would be saturated with the poison and the war would be won at one stroke. In the event that a few survivors managed to escape, it would be a simple matter to round them up. Forty-eight hours after the vote, this could all be accomplished and the threat hanging over Earth would be banished once and for all.

The plan, as it struck Bull, was horribly effective in its ruthlesmose and, with the proper element of sarprise, could wreak terrible havec among the Poseidans. There were many pitfalls in the scheme and Bill was aware of at least two of them, but the assembled Protoris were in a mood to accept victory, and the cheaper and easier the victory could be made to seem, the sconer would they accept the plan.

Before calling for the time-consuming, carefully recorded vote which was mandatoxy when deciding so serious a question, Protect Clussan asked for a standing voice vote expressing confidence in his views. He merely wanted to be sure that the war hallot would be passed on the first coreduct vote. He wound up with a final impassioned plea for the Procetors to stand now and rule her views in declose of their homes and the people of the entire Earth whom they outsy the hymatic effect for which the was famed. Almost three-quarters of the Procetor rose to their feet and round their sent.

Sick to his stomach and disgusted by the bedlam on the floor below him, Bill stood up and passed unnoticed from the building. He knew what he had

to do now and his main obstacle was time. Even minutes were vital, so he did not waste a motion but made straight for Sentrac. It was time for Eddle to be brought in on his plans. They were drastic and they involved his risking everything, even his honor and his life, but this was not the time to weigh risk. If he failed, the situation would not be the worse, and if he succeeded, everything might will be saved. If was a long shot, longer than he dared think, but it was the only hope.

It was a cloudy day and a thin drizzle began falling as Bill arrived at Sentra. It estepped inside and announced his desire to see Sublicutenant Wakkins. He waited calouly, Now that the moment for action was here, he allowed himself no distracting thoughts and he whiled away the few minutes it took Eddle to get to him by going over his plan and trying to spot any errors.

The Sentrac door alld open and Eddie appeared. 'ftil Come on through.' Even these friendly words betrayed the feeling of tenseness which gripped his friend. Bill stepped through quickly and, as the door closed behind hm, gave Eddie a hurried greeting and said, "Let's go over to your place. I've got to talk to you right away."

Eddie saw an entirely new Bill Hudson. Gone was the usual calm dignity which masked a continuously active brain. In its stead, Eddie saw a grim, tightlipped youth, whose quick movements bespoke action. He realized at once that here was not Bill Hudson the careful planner, but Bill Hudson the docer. Falling in swiftly with the urgency which dominated his friends mamer. Eddie started toward his room at double time. When they let themselves in, Bill took a quick glance around and, having assured himself that they were alone, walked over to the table by the window and sst down. Eddie followed and sat opposite him wordlessly, anxious to discover what Bill had to asx.

"I'll have to get right to the point, Ed. You know what's going on, don't you?"

"Yes. Have they taken a vote yet?"

"It's going on right now. They took a voice vote just before I left, so it's just a question of time. When they're through, we'll have exactly forty-eight hours."

"Forty-eight hours? I don't understand."

"H'll take them that long to carry out their plan. Forty-eight hours after war is officially voted, our forces will attack. It will be a double-pronged, simultaneous attack, designed to wipe out the Poseidans here and on their planet, too, at the same time."

"You mean massacre every last one of them at one stroke?" Eddie asked incredulously.

"That's the idea. Only it can't possibly work. I know a couple of things that Clussan and his sheeplike followers don't know. I gave my word that I would never reveal what I was told, but I have decided that too much is at stake. Now listen."

Bill went on to relate his conversations with Kutt in detail. He told of the mass-energy transmitter with its deadly ability to pin down every moving thing. He explained how Poseidan intelligence units appar-

ently had discovered his intention to return to Earth and how it was entirely possible that they would know of any plans being formed here as soon as a decision was reached.

"So you see," he concluded, "it's not just that the senseless shaughter of thousands of people like Kutt is terribly, terribly wrong. The truth is, although we may be able to do them great damage, I am convinced we don't stand a chance in the long run. They could pin us down and then finish as off at their leisure. After we had poisoned an entire group of them, you can imagine what merey we could expect them to show:

The news hit Eddic in the pit of his stomach. It was a great credit to his intelligence that he was able to absorb all Bill had told him and understand the situation clearly. He thought a moment, then said, "This may strike you as being beside the point, but what do you suppose is Glussan's reason for wanting war so badly?"

"It's not beside the point at all," Bill answered, "At the moment, we don't have time to go into his purpose, but I'd bet everything I ever hoped to have that well aventually find some personal reason behind it. He doesn't believe half the things he says himself, and I wouldn't be surprised to find that he doesn't believe that the lightning war will succeed in one swoop."

"Is there anything we can do?" Eddie asked. He knew, just as Bill did, that, although they both held secrets of tremendous importance, their knowledge

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was virtually uscless, inasmuch as they would never be taken seriously if they went straight to the Concourse and divulged the information.

Yes, Eddia, there is. There is one chance-one thing we mut do. We've got to get to Delu, csplain the situation to him and have him come down here. If he wre to appear before the Concourse in person, I flow we have you'dl listen to him. Clussan can get them all rifed up and stampede them any way he wants them to go, but they still have a great respect for Delus, as you know. If he were to delate the differences between his home and ours with Clussan, right in froat of all the Proctors. In convinced that the crists would be over and Clussan would be revealed as nothing but are amplyheaded warmooger."

Eddle vast dead serions "Bill, I belive your" right. The Process have allowed themselves to be whipped into such a franzy they wouldn't know how to stop now, if they wanted to. The sudden appearance of Delu would bring them to their senses all right, and once they were back to normal, he would make them see the light. But, Bill, how could we contact Delu' O'R tuft 2All communications will . . ."

"No, we won't be able to use any of the normal lines of communication. We're going to have to go to Poseida ourselves. We'll have to leave tonight."

Eddle was stunned. His friend was obviously in carnest but his proposal wasn't feasible. "We couldn't do that. Why, under the conditions no unofficial passengers will be carried and, besides, we both have our jobs to do. They would never let us go."

"Our jobs are unimportant compared to the real job which we have to do. We have to get Delu down here right away. Forty-eight hours will be too late. He must be here in time to stop the action now being voted upon from being carried out. As to they're letting us go, hew von't have the chance to stop us."

"They won't have to *do* anything to stop us. How arc we ever going to get to Poseida? Don't you see, we're stuck here, and if they won't give us a space"

"That's the whole point, Eddie; we have no choice but to take a long shot and hope it works. We stand a good chance, but we must act at once. We're just going to have to take a ship and leave without authorization."

"Piracy!" The distress in Eddie's mind expressed itself in the explosive word. "If there were any chance at all that it would work, I'd be for it, but they wouldn't even let us into the spaceport, much less near a ship."

Bill's voice was quiet and even, in contrast to the excitement vibrating in his companion's speech. "When you're not doing special duty at the World Concourse, what's your regular assignment here?"

"Why, I guard the craft right here at the experimental...Oh, no!" As the realization of what Bill meant sank in, his voice trailed off and his eyes widened as he looked at the very determined, cool young man across the table.

"It's our only chance, old man. We'll have to take an XL ship tonight!"

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Chapter 13 Thirty Seconds To Go!

In: movemer pounded through Eddie's brain. Steal an XL shipl I was a fantastic scheme. The dangers were obvious, not merely the actual taking of the ship, but the fact that none of them had ever been successfully flown. On the other hand, he knews the layout and there was no doubt that between them they could effect the seizure of an XL ship. He would four the next momiting and an one would simp him if he choice to approach the craft, or even board it for inspection.

"It might work," he said slowly, "it might just work."

Bill was relieved to see that once the original shock of the plan had wron off, Eddie recovered quickly, and they started discussing the actual details. Every move was charted; several times a particular tactic which had seemed workable had to be revised. Hours passed as they went over and over the plans. By five o'clock the gray, dismal day had darkened into an early night.

Midnight was decided on as the best time for their eventure to start, and BiB had just announced that he would be at Sontrac's entrance at that time, when his see, was caught by an indistinct movement outside. He stiffened alruptly but he kept talking in his normal voice while he publed a notebook and pencil from his pocket. He wrote a hasty note and handel it across to Eddie, meanwhile kepting up his conversation. Eddie looked at the note and froze. BiB had written, "There is someone could be written,"

Silently stealthily Eddie rose and backed away from the table, motioning Bill to keep talking. As Bill droned on, striving to keep some sense in his words so as not to alarm the shadowy listener. Eddie moving with the lithe grace of an athlete, made his way to the door and, opening it noiselessly, slipped out and took the back exit of the building. Keeping close to the wall, he glided around the corner, and, as he approached his open window, he could hear the low hum of Bill's voice. He could not distinguish the words as he paused behind the shelter of a tree trunk. His eyes became accustomed to the darkness and searched the area directly around his window. The light spilling into the shrubbery created weird shadows and he could see either a hundred figures. or none at all. He had begun to think that Bill must have been mistaken when a sudden distinct movement of a dark patch betraved the location of his quarry. Using a principle which he had learned as part of his military training, he averted his eyes and stared at a spot a few feet to one side of the dark

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patch. The dim light entering his eyes from the side emabled him to see more clearly. The crowshing figure shifted its position slightly as Eddle tensed himself for an overpowering rush. About treesly-the feet separated him from the larking form and with a sharp ery of "Now" He charged from blaind due tree and liong himself onto the intruder. The totally unexpected attack carried hem both to the ground and, as they strengted, Bill happed through the window to trouble in sublicing their opponent and, with a firm hand charged ever his month, he was carried bodly into Eddle's room.

They let him fail onto the bed, Bill holding his feet firmly to prevent any further struggle, although it appeared that the interloper had lost any will to fight. Eddle removed his hand, still holding it ready to clamp back over the stranger's mouth at the first sign of a scream. "Okay," he said awagely, his breach coming hard, "keep your voice low or Till pulverize you. What were you doing outlide my window?"

"1... I was just there, that's all." The voice came plaintively. Bill snapped around, letting the feet go. "Griff! Griff Hughes!" he exclaimed.

"Do you know this buzzard?" Eddic asked in

"Do you know this buzzard?" Eddie asked in surprise.

"He was on the flight with me to Poseida. He's a messenger," Bill answered.

The slim figure on the bed wriggled sheepishly and pushed back the spectacles which had slid forward onto his nose, giving him the appearance of a be-

wildered grandfather. "It's a small universe," he ventured unhappily.

"Cut the smalltalk," Eddie snarled to the thoroughly scared messenger. "What were you doing outside my window?"

"I've been assigned as messenger for this unit and I was just out for a little walk to get a breath of air. You see when the rain stopped . . . "

"Do you usually take your air in the shrubbery outside an open window?" Eddie broke in angrily.

"Well, no, but you see, when I heard you talking, I naturally . . ."

Eddie interrupted again, impatiently. "You naturally what? How much did you hear?"

Griff lowered his eyes and hesitated. "Enough to know what you're up to," he blurted out and sat bolt upright, "and I want to tell you I'm all for it and I want to go with you!"

Eddie looked at Bill. "Sure," he said, "he's all for it, until he gets out of this room and then he'll hotfoot it over to Headquarters and think he's a big hero."

"No, no!" Griff protested. "I never did believe Poseidans were threatening us. I tell you, I'm on your side. Ask him. He'll tell you." He nodded toward Bill.

"He's telling the truth." Bill confirmed his claim. "At least he spoke in their favor before I had even come to know them at all."

The messenger nodded eagerly. "Look, fellas," he pleaded, "you've got to believe me. I think Glussan is the lowest thing there is and I'd do anything to stop this war. When I heard you talking I just couldn't

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help listening, and I was trying to get up enough nerve to come in and tell you I was on your side and wanted to help when you," he rubbed the back of his neck, "when you asked me in."

Eddie looked at Bill quizzically. "What do you think?" he asked.

"Frankly, I believe him. The fact is, we don't have much of a choice. Look here," Bill faced Griff directly and spoke steropk, 'you do realize that our proposed mission is the only hope of averting a disastrous war? You don't think we're planning to sell out our own people?"

"Of course not!" Griff returned sincerely. "That's why I want to join you. Don't you see? It's the one big chance I've ever had to do something really important -something I really believe in."

Bill extended his hand. "That's good enough for me," he said simply. Griff grasped his hand and shook it enthusiastically, then turned to Eddie who smiled as he offered his handshake and said, "You're in!"

The three then sat down for a hurried review of plans, filling the newcomer in on the part he had missed. Suddenly Bill clasped his hand to his forehead and groaned. "How could I have been so stupid. We left out the most important thing. The pilotl We've made no plans for one."

"Well, I guess we'll just have to kidnap one of the test pilots and force him to take us," Eddic replied.

"Sure, but we can't leave that till the last minute. What do you know of their movements, Ed?" Bill asked. "I'm pretty familiar with their routine," Eddie said.

"May I suggest that the piloting of the XL model need cause you gentlemen no concern." Griff remarked. He was returning to normal, and his usual cocky attitude added a pleasant note of relief to the serious planners

"How do you mean, Griff?" Bill inquired, raising his evebrows.

"I don't get you," Eddie joined in. "What I mean," Griff said, studiously inspecting his fingernails, "is that I have done everything but get an official checkout on the XL series. In the course of my duties. I have had contact with many of the test nilots and, after delivering messages, I have been able to hang around and observe. You'd be surprised how little a lowly messenger is noticed. I've heard the pilots being briefed and seen them go through their test runs. I've sweated out many a dry run with the commander of this sector. I've also managed to borrow a blueprint of the latest XL ship and a copy of the operating manual."

"They let you have a blueprint and a manual?" Bill asked incredulously.

"Unofficially, of course," Griff replied. "I did not

feel it necessary to inform them of the loan." "You son of a raygun," Eddie exploded with a look of genuine admiration. "You stole them! Right out from under their noses!"

"Well, that's a rather crude way of putting it, but quite accurate, I'm afraid. It's just that I have always been so interested in the pilot's end of things that I

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was curious. I wanted to find out if I could discover what was going wrong."

"Did you run across anything?" Bill asked hopefully.

"To tell you the truth, I've not been able to discover what the fellows who piloted the ships were doing wrong. For that matter we're not sure they all did the same thing. But I am confident that I can operate an XL model and go anywhere I want to safely."

This offered a solution to a problem which might have endangered the whole scheme. Bill and Edde thought over the possibilities. If Griff really coold plot one of the XL ships, it would simplify the situation "Laten, Griff," Bill said earnestly, "don't think in terms of what you'd like to do. You know how much is at takls here. Millows of lives may depend on much is at takls here. Millows of lives may depend on get us to Possible. Recember, you may do allow at like the controls. Once we blast off, there'll be m one to help you."

"I was never more certain of anything in my life," the bespectacled youth said seriously. "I know I can take that ship to Poseida."

The three exchanged looks and it was agreed. Grift would be the pilot. They chose the XL-35 as their target ship. It was situated at the base of the blastoff tower and hooking it up would take only minutes. Griff outlined the procedure to be followed which would enable the ship to be cut loose by the inboard control system. Eddie would station himself at the base of the craft shortly before mininght. Griff would wander out and be handy at the Sentac entrance, and Bill would step into the outside booth at the stroke of twelve. The details agreed upon, they stood up and joined hands. In their hearts the importance of the undertails weighed heavily, but if their hearts wavered or missed a beat and trembled slightly, their minds and hands did out. To success and peace," the other two intoned fervently.

Bill arrived back at his room shortly after seven o'clock. To his surprise, Brad Short greeted him. "Hi! I was beginning to think you'd never show up."

"Red! I thought you'd have gone back to your quarters by this time."

The corpsman grinned. "There've been rumors around that something big was happening," he said, "so I thought maybe you'd need me."

"That was nice of you." The last thing Bill wanted was someone who might get underfoot and botch things up at the last minute, but he had to go along with the situation. "Haven't you missed your mess call?" he inquired.

"Oh, that's okay," Red smiled.

"Well, we'll eat together," Bill said. "Has Major Keller been in?"

Brad was about to answer in the negative when the outer door opened and the major walked through. Bill hastened to his side, but the major waved him away. "I'm all right, son. I've been taken care of," he said wearily. Obviously he was fatigued. Bill had never seen a man so tired. The major walked into his bedroom and sat on the edge of his bed.

Bill followed and said, "Your shots, sir. At least you should have those,"

Major Keller slipped off his shoes and lay back on the bed. stretching himself luxuriously, "Thank you, lad, but Colonel Benow and I have been together all afternoon. He examined me and gave me the shots. In view of the strain I've been under, he gave me something to induce sleep as well, so I think I'll just rest for a m . . ." The major's words trailed off into an unintelligible mumble and right in front of Bill's eves he fell fast asleep. Bill loosened the sleeping man's belt and drew a blanket over him and tintoed from the room, closing the door. Mustering a cheerful attitude he called in a low voice to Red. "Come on. fella, let's cat." They went to the officers' mess downstairs and Red, impressed by the opportunity, ordered a huge meal. Striving to maintain a casual conversation, Bill ate his food mechanically, his thoughts on the night's work ahead. The presence of this goodnatured eorpsman could become a problem, but there was no way of dismissing him at this late hour without risking questions.

When they had finished eating, they went upstairs to the major's suite and Bill looked into the main bedroom. Major Keller was in a deep, peaceful sleep. So much to the good, Bill thought as he returned to Brad. He wrote out an authorization for the corpsman to spend the night and handed it to him. 'You can sleep in my bed,' he told him. "I couldn't do that," Red protested. "Where would you sack up?"

"Don't worry about me. I'll sleep on the couch in the sitting room. You see," he added, thinking quickly, "Yve got a patient, a Colonel Benow, that I have to look in on around midnight, and that way I won't disturb anyone."

Red looked hesitant. "Well, if you're sure it's okay...," he began.

"Of course, I'm sure. There now, it's settled."

Although the matter of who slept where was settled. Brad showed no inclination to take advantage of a good night's rest. He had been alone all day and it was not normal for him to maintain a silence that long. He kept up a running conversation, discussing the most trivial things about military life in general and his neculiar lot in particular, until Bill could cheerfully have shot the corpsman. He answered Brad's discourse in polite monosyllables but the strain of watching the clock, and vet not appearing anxious, gave him a splitting headache. Finally, when his watch showed that it was twenty minutes till midnight, he rose. "I hate to break it up," he said, "but I have to make my call now. You go ahead to hed I have no idea how long the colonel will keep me." He winked confidentially, "You know how colonels are, so don't wait up." The effort of standing up sent a surge of pain to his head. "Wow!" he exclaimed, "I've got the granddaddy of all headaches."

Red shot to his feet. "Stay just where you are, sir," he said with an exaggerated air. "I'll get you an aspirin and dispose of the ache in a flash." He disappeared hot be haloratory and come out a momentulance carrying a glass of water and a little white tablet. Bill took it gratefully and swalldword it with a monthful of water. Brad smilled. "There you are," he said and howed. "Just come to Dr. Short whenever anything ally you. Service is prompt and prices are moderate. Here," heufiched he little bottle which had contained the medicine into Bill's trouser pocket, "ike a supply with you. You know how colonels are." He gave Bill a broad wink and grimed from ear to ear.

"Thanks," Bill smiled in return. Under any other circumstances he would have enjoyed the clowning of this fun-loving corpsman, but his only thought right now was to get out of the suite without arousing supicion. If cell better already," he continued. "TII go visit the colonel and you go to sleep. I'll see you in the morning."

"Right!" Brad threw a nondescript salute and turned on his heels, entering the bedroom. Bill opened the outer door and stepped out. He cast an anxious glance, making sure that Red was getting ready for bed. "Slcep tight," he breathed as he closed the door behind him.

Bill sauntered down the hall and, as he passed through the main doorway at ground level, he paused and drew a deep bereth. At this time of night it would not do to appear too hurried. The important thing was not to give an observer the impression of greater haste, nor, at the same time, to move furtively. He

was merely a stroller, out for a breath of air before turning in. He did not head inneediately for the spacestrip, but took the path leading to the recention area, which was kept open all night for the bencht of the swing shift. He continued along this road for several blocks, then turned to his right and made his way to Sentra's steel entrance. Just as hs steppol into the booth, the panel dropped in back of him and the wall in front slid up to reveal Griff Hughes.

Twe been waiting for you," Griff told him in a low voice as he stepped through. "I set the mechanism to manual operation and when you appeared in the approach scanner, I let you in. No chance of slip-up that way."

"You mean there's no record of my having entered this area?" Bill asked, as the two of them walked casually toward the spacestrip.

"Oh, no. Sentrac picked up your identification points. Since you're already in its file, it'll identify you, all right, but before anyone reads the tape, we'll be on Poseida."

"It doesn't make any difference, anyhow; as soon as we blast off everybody in the area will know about it. What's your opinion, Griff? Do you think they'll be able to knock us down once we're airborne?"

"Not a chance," Griff answered confidently. "To begin with, they'll be so surprised when the ship suddenly blasts off, they won't know what's happening. In the few seconds it'll take them to get into action we'll be out of range. The only thing they can do is send up pursuits." "Well, I'm not worried about that," Bill said with finality.

"Me neither. There isn't a ship made that can catch an XL and I happen to know that the 35 is the only one ready for action. Look," he said, putting his hand on Bill's arm to slow him down, "there she is ahead."

As they stepped into the open, rounding a large hangar, they could see the feld hying before them in the dark. All activities had been suspended for the sight and the buge nera was in darkness except for an oceasional circle of light where a lamp stood a lonely watel. One such glowing circle spread dinity around the great ship. The top of the tall hannching tower estended above the range of light and disappeared into the inky black of the sky. On the ground, a guard paced back and forth, his fager made tiny by the massive structures of the XL-35 and the tower. That, Eddie, "Griff whispered. The hockup is completed and all we have to do is board her and take oft."

The hoys stood in the darkness, looking across the field, their goil in plans sight. Bill's yees strained to pierce the darkness as he tried to ascertain that there was no one about. A quick dash, a hurried scrambling aboard, and then, if all went well, the first step of the dangerous but viral plan would be accomplished. Griff looked at the luminous dial of his astrowatch. Thirty seconds, to go.⁵ he whipered hoursely. The thirty seconds, Eddie will move to the boarding ramp and we dash necess. Ready?⁶

"Ready." Bill's lips tightened as he checked off

the seconds. Fumay, he thought, just that little strip of darkness separates us from our objective. That little strip of darkness separates us from peace, right now. He gave a sardonic sourt as it occurred to him that a strip of mental darkness was all that separated the World Concourse from peace. Then there were only five seconds to go and all thoughts one appint first lips formed la very series of mental one appint first lips formed la very series of mental in a barely audible voice. "Five . . . four . . . three . . . two . . . mov".

Chapter 14 The Missing Pill

AKING a deep breath, they flung themselves forward into the blackness. Legs pumping, his arms flailing the air. Griff raced after Bill, who ran with the easy grace of an athlete. Keeping his arms close to his body. Bill stretched his legs in long, loping strides that ate up the ground. As he raced up to the XL-35, Eddie, who had been pacing beneath the structure. turned and ran up the ramp. Bill reached it and jumped up without losing a step, and a few seconds later Griff joined them, breathing heavily. Griff swung into the compartment, looked briefly around and started giving orders, while he seated himself at the main controls. His first action was to switch on the televiewer and scan the surrounding area to see if the boarding of the ship had been noticed. The four screens in front of him gave a continuous 360-degree field, showing the entire spacestrip, surrounded by its hangars and the barracks behind them. Anxiously all three of them peered at the screen. looking for signs of any unusual activity, but all remained quiet and serene, as before, "I guess we're okay so far,"

Bill breathed, "although it sure looks peculiar seeing the whole area as if it were daytime, when we know it's pitch black out there."

"Îve got the night switch on," Griff answered, staring intently at one screen and then another. "We're looking at the screen through converted infrared."

"Well, let's get going," Bill said. "Griff, you're the captain. What are your orders?"

"Now let me see. The hatch secured?"

"Secured," Eddic answered him.

"Good. Bill, you check the secondary control panel. All lights should be green. Call out if you see any red ones. Eddie, you hand me the preset data and check me as I feed it into the inboard takeoff robot."

Quickly, efficiently, the loss set about readying the craft for the takeoff. Short, elipped enteness cankled through the compartment as orders and information were relayed. From time to time, the televiewer was inspected carefully. Still no alarm had been raised. The pace quickened as only a few minutes: remained before the powerful main units would be switched on and the cry. Nissile away," would sound. Diak, Griff was surveying the televiewer for a final check, when he renewer this specticles and, holding them in his hard, pressed the knuckles of his free hand into his eyes.

"What's wrong, Griff? Trouble?" Bill asked quickly. "No. No trouble. It's just that I have a blinding headache. It won't interfere with this, though, so don't worry. How's the secondary control?"

"Panel green all round," Bill answered. "Look, if you tell me where the water supply is, I'll give you something for your headache. Might as well be comfortable on this trip."

"Water's piped to each seat. Right here, see?" Griff pressed a button on the ann of his chair and a thin stream of water spurted out and was caught in a small saucerlike basin which had swung out. "Dort worry about me. I get these all the time. If II go away."

Bill stepped over to the navigation desk and pulled the small phial from his trouser pocket where Bed had placed it. He pulled out the stopper and allowed a pill to roll onto the palm of his hand which he held under the light. Under the glare of the direct rays from the lamp, the small white pill caught Bill's eve and froze him into a horrified stare. Quickly he snatched the nellet up and held it close to his eyes. bending to get the full benefit of the light. He examined it anxiously, only to have his worst fears confirmed. The tiny initials A.S.W.H. which were molded into the surface of the tablet identified it as antisuss compound pressed by William Hudson These were his own antisuss pills! Brad Short must have made a terrible mistake! He had handed Bill the wrong bottle. The idea was too fearful to be quickly grasped. Did it mean that the tablet Bill had swallowed back in his room only a few minutes ago was also an antisuss pill? Hastily he poured the rest of the pills into his cupped hand and counted them. There were four. He checked to make certain that none remained in the phial, and recounted them. There was no doubt about it now. There were only four pills. One was missing—the one he had taken by mistake. Six had been made, and they had used one in the controlled test.

Bill's head swam with the impact of the dreadful truth. If he remained on board now, the drug would start to take effect. His only chance was to take a suspended-animation pill at once and hope that it would counteract the effect of the drug he had swallowed by mischance. He thought hard as he stared at the four white circles in his palm. To remain on board was certain death. As the drug took hold, he would start to age, slowly at first, then with increased speed, until several hours from this moment he would die of old age! It was horrible. On the other hand, to leave the craft now would mean the abandonment of their plans. He could never hope to make it all the way to his room and back without arousing suspicion, and if Eddie and Griff left without him what would be their reception on Poseida? Would Delu suspect the journey was a trap and that these two unknown Earthlings had been sent to lure him? The answer was clear. Either he himself went with the ship or it didn't leave. En route, he could write a report to Kutt, and therefore to Delu, and explain everything. His body would be mute evidence of his sincerity, and the remaining antisuss pills would be proof of what had happened.

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"Bill Bill What's the matter, fella?" Eddle's words penetrated the thick blanket of thought which had surrounded him. Quickly he made a decision and snapped alert. He replaced the pills in the phial and looked at his friend with a smile. "Be right with you, Ed. All set?"

"Sure. We're ready to go right now. What happened? You had us worried."

"Nothing happened. I was just thinking, that's all. I'm sorry if I held things up," Bill answered. He did not want his two companions to have to share the awful burden of his decision. Once they were well underway, when there was no turning back, he would explain things to them, but not before then.

"Just thinking!" Griff said in awe. "I'll bet the temperature in this compartment has gone up ten degrees just through sheer brain energy released. Boy, I'd hate for you really to concentrate on something."

"Okay, okay, knock it off," Bill replied goodnaturedly. "Let's get going. What's left to be done?"

"Just strap on your magnetic soles, tie yourself into your seats and we're off," Griff said.

The three boys harriedly followed the instructions. In the XL modek, the ship was loaded in the vertical position, but the entire compartment which housed the operating personnel swiveled in all directions. When they had secured themselves to their seats, magnetic soles in place on their shoes, the seats converted into cost and them the entire compartment swiveled to put them in a standing position. They braced themselves and Graffs hand found the main energizer switch. "I'll want a countdown. Five seconds, Bill, you sound off when I tell you," he said.

The boys faced the televiewer below them and two figures walked into view at the edge of a hangar. They were staring at the ship and one of them raised his hand, pointing in the direction of the XL-35. Obviously their curiosity had been aroused and they started to walk toward the launching tower.

"Now," Criff called out as he sweep the big handle to the position marked "Energy Demand. Tamediately, the great ship came allow; a faint hum sounded through the compartment and an almost imperceptible vibration coursed through the three hooys as bill called of the second: "Free ...fort..., three..., two... one ..." Criff slammed the handle to "Taked" and Sill. Fdde and Criff gave vent to their enotions in a loud, simultaneous shout of "Missile awa-st"

Three pairs of eyes remained glued to the televiewers at the ground fell rapidly away. The force of the acceleration pressed the foot supports against the soles of the occupants and the straps tightened as they took over the burden of keeping the bodies in place. Below them, the boys could see lights suddenly witch on, flooding the entire spacestrip area. The XL-SY was already in the stransplere, and the postage strong, then to a proposite of light and floully, as the great craft haded into outer space. If densits disappeared and the roundness of Flanct Earth glowed like the Moon in the reflected light of the Sun. Nothing smaller than a continent could be distinguished, and soon even the Earth itself was only a point of light in a sea of stars. Griff relaxed and said, "We dld it."

Eddie laughed nervously. "Well, we sure enough took off. That much we sure did." It was his first space flight and everything about it was new to him.

"What countermeasures are they taking?" Bill asked.

"Left take a look," Criff answered. He switched the televiewer receiver to long-range observation and focused the electronic antenna back along the path they had traveled. Three pursuit thap became visible and the ansiety in the XL-35 became almost a physical thing. Bill feit measy and Eddle was painfully alarmed. "I thought you said we could outdistance anything," he remarked.

Criff chorded. Even the obvious danger of hurding through outer space in an unstead crift while being pursued by ships determined to blast them to dust could not dangen his obvious enjoyment at being, at long last, the pilot of a giant spaceship. "Don't let them worry you at all, at all. Remember you are seeing them through long-range observation. They're not half as near to us as yot think. Keep an eye on our speed indicator." Bill flashed his gaze to the meetr and saw that the long, narrow dil awar marked off into sections with numbers running higher from left to right. The needles shifting about the support of the transket. "The indicator is operating at the highent level. These different scales pop up as speed increases and we are now getting readings of thousands of miles per second."

"Does that mean we're traveling at 125,000 miles per second?" Eddie asked, impressed.

"That's what it means. Not bad, eh?"

"The scale runs up to 225,000. Can we actually go that fast?"

"No one ever has, as far as we know," Griff returned, "but that's what this ship was designed to do."

Bill asked a question. "Do you know the maximum speed of those pursuits?"

"Offhand, I'd say around 150 to 160, tops. Stripped, that is."

"Fully armed?"

"That'd be difficult to say. Something under the top figure, I'd guess,"

Eddle was not satisfied yet. "Then they can go faster than we're traveling right now," he announced, shaking his head, "which means . . ."

"Don't let it worry you," Criff laughed. "Remember we have a headbatt and we're not a peak acceleration yet. As we increase our speed, we'll pull away. The televiewer is on fixed focus, which means that no matter how the distance between them and us varies, they will remain on the screen at the same size. So they could be dropping far behind, or activing up more on an activity of the television of the screen size, minute and you'll get a rolative picture." He pressed a pattor, The dipits on the screen give valowly smaller.

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"You see," Griff said with a chuckle, "we're gaining on them." He switched the televiewer to the collision setting and the screen went blank. If any object appeared in their path or was overtaking them, the sereen would flash on immediately and an alarm would ring.

They converted the cots to seats again but remained strapped in them. Bill reached for the pad which was held in place by a spring ellp on the wall at his side and said, "If you won't need me for a while, I'd like to write some things down. I'll go over it with you when it's dome."

"Go right ahead, m'boy," Griff replied. "We'll still be accelerating for quite a while and all we have to do is check instruments. Eddie can help me with that, so write a book if you'd like."

Bill immediately lost himself in his work, concentating on what was to be his find experiment. As a yet he fot no symptoms, but he knew that shortly the effects would begin and he was anatoms to get as much down as possible while he still retained his faculties. It operated within sthement that he was fully aware he was to die within the next few hours and therefore his was the only method available to him to reach Delu with hit message. He praised Eddie and Griff, asking Delu to place in them the same confidence he would have felt had Bill been allee.

As he struggled to commit his thoughts to paper, Bill was heedless of the conversation going on between Eddie and Griff as they checked various readings and passed remarks back and forth. Occasionally, he would stop his labors and examine his hands, seeking a sign that advancing age was creeping up on him. When he found no sign, he returned to his writing with reneved vigor. Nearing the end of his manuscript, he began to notice the voices in the background and was a riffe irritated to hear langular mixing in wome frequently. It structs this mas unusand an uproved ship should cause such hilarity, but he gave no real thought to it.

Bill continued writing furiessly, but the peals of langther and the chatter of the two in charge of the craft interrupted hit thoughts and he was about to register a protest when the realization hit him. The autisus drug was beginning to act on him. In first effect wars on his mind. He was growing older meetally and therefore more serious. If chad always been hiesed with a good sense of humar, but now the normal high spirits of these two young men were beginning to series to him Mike dhidikh antics.

Shatting out this new-found disturbance from his mind, he completed the manuscript but continued to watch his two companions secretly. They would provide a good gauge against which to determine the progress of the drug. It's fumy how sifly they are, he thought. Of course he realized that he was obsering them from an entirely new point of view, but he couldn't help woundering, with a trace of embarrasment, whether he had appeared just as childhis ho, say. Major Keller. They scence to be paying no

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attention whatsoever to their work and when either cracked the most ridiculous joke, both of them giggled wildly.

Bull fork very depressed, but not only for himself. He knew what a damper his news would be to the spirits of the two boys. At the same time, he could not suppress a snaking through that it might be just as well if they became a lot more serious. After all, this was an XL craft and none of them could be rare that some emergency might not take place at any moment. He determined that he would break the news to them and, at the same time, sodd them for not being on the alter for danger.

He know he would sound like an older man to them, but he couldn't help that. After all, he uzes an older man and they certainly were carrying on in a disgraceful manner. If his report were to reach Poseida, they would have to tone down their highjinks. He cleared his throat. "Fellows," he began.

The two boys interrupted their conversation to face him. Jumpin' Jupiterl Bill thought, but they look young. Did all of us look like children to our superior officers?

"Hey, lookie who's joincd us!" Eddie greeted him. "It's Billy boy. Billy, Billy, Silly Billy," he sang and Griff joined in. "Billy, Billy, Silly Billy," they sang and broke into loud, high-pitched laughter.

"Okay, fellows, now you've had your fun," Bill said, "but please remember we're here on a very important mission and"

Eddie cocked his head to one side and there was a

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quizzical expression on his face as he stared intently at Bill. "Gee, but you look old!" he said.

"That's what I want to talk to you about," Bill answered. "You see . . ."

"You going to tell us where you've been?" asked Eddie with a sly smile.

"What do you mean?" Bill asked perplexed. None of this made any sense to him.

"You know," Eddie answered, and with a wink at Griff he started singing, "O where have you been Billy Boy, Billy Boy, O where have you been, charming Billy?" "The two boys sang it over and over again, amid loud, prolonged laughing fits.

Bill looked away in frustration. What could be happening to him to make him see things in this unrealistic light? Eddie and Griff didn't carry on like this. No matter how old he became, he would never have such distorted vision as to see what he was now apparently seeing. There was no doubt that a great change had taken place, but in his present condition Bill saw that he did not have a chance to cornmunicate his thoughts to his friends. He wondered how he appeared to them. Eddie had said he looked old. He held his hands up and examined them: they seemed no different to him and yet, he thought does a man ever look old to himself? His thoughts flashed back to the guinea pigs who had shown the first reaction to the antisuss drug. They aged, with all the appearance of age. Their skin wrinkled, their hair fell out. He ran his fingers through his hair: as far as he could tell, it was as thick as ever.

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Nothing made sense to him any more; he sat back in his chair in defeat. Something was happening to him that he couldn't understand and couldn't do anything about. Then he remembered the polished chrome signaling mirror he carried in his breast pocket and he pulled it out and thrust it in front of his face. There was his own face looking back at him-no change whatsoever that he could see. He studied his appearance carefully. One thing was certain: no drug which he took could have any effect whatsoever on Eddie or Griff. So when they appeared to be getting vounger and reverting to childhood, it had to be something happening to him instead, he reasoned. What could be more reasonable than that he was getting older? But it didn't fit, Bill had always been a fair-skinned boy, and the wispy down on his face had never toughened into a bcard that needed shaving. Holding the mirror with one hand, he stretched the skin with the other and saw the same golden filaments that belonged there.

His eyes were clear with the brightness of youth and his six mouth and unviriable. As he looked up in puzzlement, he saw Eddle and Griff, still singing and shouting a chenrs of "Cam he make a cherry pie, Billy Boy, Billy Boy," They were leaning over in their sast, playing a bhirdow game of putycask. They paid no initiation at all to the initiation at each other and bubbled their childhals in lands at each other and bubbled their childhals in song, not carring whether the words made souse, Bill realized that, whatever the explanation, he was perfectly normal and an these two boys were becoming younger with every passing minute.

His eves took in the control panel and passed over the gauges. The speed-indicator needle was almost at the end of the scale, hovering over the 210 mark. and on the panel red lights were scattered among the green, winking their warning signals. He didn't know how to interpret those warnings and neither Griff nor Eddie had any interest in anything but their childish game, but the acceleration control was plainly marked. It seemed to Bill that the best he could do for the present would be to slow the ship down. This would at least give him a little time to find out what was wrong. Unbuckling his straps, he placed his feet carefully on the steel floor of the cabin and struggled over to the panel. Griff ignored Bill completely as he reached over and moved the acceleration-control lever to the left, centering it about the middle of its track.

He made his way back to his seat again, and, hoiting himself into it, he fastened his straps and leaned back, trying in his mind to find some clue that would enable him to solve the mystery. He noted with satisfaction that the speed indicator was slowly depoping back toward the 200 mask, but wondered what good that would do. For some reason, the effects of the antituss' drug had not begun to show yct, at least not on his body, but, as he sat there concentrating and waiting for nobody heave what, he smoothed at the inony of it. Here were the three people on Earth who had devices an active plan to maintain peace throughout the solar system and they were being impelled through space in a craft which was to all intents out of control. One of the occupants was due to start aging at any time, and the other two were returning to their childhood. Something had to be done, he knew, and his only hope was to win somehow the co-operation of the playful boys.

"Edl Griffl" he said sharply. "Now listen to me. Pull yourselves together and pay attention." He spoke in a stern voice and with more confidence than he felt. "We've got a job to do and you're going to help!"

Chapter 15 Through the Light Barrier

HE TWO boys stopped their game and looked at him blankly. Bill talked rapidly while he had their attention. 'I know you may not understand everything I'm going to say, but I'm in trouble and I need your helb. Can I count on you?'

The two boys nodded eagerly, their faces innocent of any trace of understanding. They didn't seem quite sure whether this was a new game or whether Bill wanted them to do something, but at the moment they seemed willing to go along with him.

He explained carefully what he had noticed and that they were apparently reverting to their carly youth. He assured them that there was nothing wrong, with this in principle but that Criff, in particular, was the only one who could operate the high and would they both try to be scrious and see if they could remember what they were supposed to be doing. He used simple, direct languages, and when he had finished he was glad to see that he still had their interest, but he noted with disapointneam

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that neither boy made a move to get back to work. Patiently he started again, and as he talked an idea formed in his mind.

"Boys: Los announced, "we're going to play a game." The control panel with all the pretry lepky was going to be the main part of the game. Eddle would point to each light and Griff would have to tell him what it meant. He hoped that if they started on this basis. Griff would remember cough to enable Bill to figure out the rest. "Ready" he asked and both hops modded downly, without norming their eys from logs model downly, without norming their eys from light on the hond, and, Griff, you have to tell us what it is."

The two boys looked at each other and then back at Bill. For a minute neither of them moved and then Eddie shrugged and pointed at a light. "That indicates the main braking synchronizer element," Griff sang out.

"What does it do?" Bill asked eagerly, pleased that his idea was working so well.

"Inamuch as we travel through empty space, merely lowering power would not affect the forward speed. When the main energizer is tapped for decreased speed hy means of the acceleration control lever, the braking synchronizer applies a proportionate amount of power contrary to our direction, which has the effect of slowing us down."

"Good! Good!" Bill shouted enthusiastically. "Now, Eddie, you pick out another light."

Eddie pointed a hesitant finger at another one and

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Griff called out, "That is the selective transmitter indicator,"

"Fine." Bill nodded encouragement. "What does it do?"

Griff's face looked puzzled. "What's gotten into you, boy? Do you want me to go through the entire ship with you?" Bill was nonplused; he was at a loss for words as Eddie chimed in, "He's right, Bill, you've been acting kind of peculiar, you know."

"T've been acting kind of peculiar?" Bill shouted indignantly.

"No offense, old man," Griff replied tolerantly, "but you've been treating us like blithering idiots."

"This pointing to a light and having Griff tell us what it is, does seem kind of childish," Eddie agreed reluctantly.

Bill found his voice. "Do you two have any idea what you great big grownup adult men have been doing?" he inquirde vehemently, then answered his own question. "You've been sitting there playing pattycake and singing, 'O where have you been, Billy Boy!"

"We've been doing that?" Eddie asked, disbelieving.

"I'm afraid that proves it, Bill," Griff said, looking him evenly in the eyes, "there is something definitely wrong with you."

"There is, eh?" Bill snarled. Although he knew his two friends were not responsible for whatever misfortune had occurred, he was exasperated at being

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blamed by the two who were the cause of his concern. "Well, take a look at your control panel."

Griff swung his gaze to the panel and started. "Hey!" he shouted, "we're down to 160!"

"No kidding?" Bill remarked innocently. "How do you suppose that happened?"

"Why, the acceleration-control lever has been pushed back!" Griff exclaimed in surprise.

Bill figured things had gone far 'enough. Eddle and Griff second to have re-established normaley and he related the events of the past while explaining just what had happened. He handed them his manuscript and when they had read it they both looked up and inspected him earefully. 'You look okay to me, pail,'' Eddle said definitely.

"You don't look a minute older to me," Griff agreed. Eddic concentrated for a minute and then asked, "Do you have any idea what's behind it all?"

"I think I have a clue," Bill answered seriously. "It has to do with the fourth dimension."

"How do you mean?" Griff asked. After all he was the pilot of the craft and if anyone understood its behavior it ought to be he.

"Before I can be certain, I want to make one experiment," Bill answered, "and I'll need your help. I want you to accelerate and build up speed, then as soon as I tell you, I want you to slide the lever back to its present position. Got it?"

"Sure. Shall I accelerate?"

"Just a minute. As we increase our speed, you may

lose your sense of responsibility. It is important that you concentrate hard on what you are to do and no matter how giddy you feel, force yourself to push the lever back when I tell you."

"Well, that doesn't sound hard," Griff remarked, a bit surprised that Bill should make such a big fuss over so simple an operation.

"It may not be so simple when I ask you to decrease our speed, but, if you concentrate hard, I think you'll be able to do it."

"I get you. All set?"

"Let her go," Bill said, keeping a close watch on Griff's actions. Gradually, the needle on the speed indicator moved to the right-170, 180, 190. Griff had his hand on the lever as he watched the needle climb, and a look of vast amusement crossed his features.

Eddie called out, "Hey, Bill, why so serious? Why don't you relax and enjoy the fun?"

"Now! Griff, switch her back," Bill shouted.

Criff's eyes were fastened on the slowly moving needle. "Aw, c'mon, Bill, let's keep her moving; let's "see what happens when the needle moves right off the dial."

"Griff!" Bill yelled in near panic as he felt his own determination slipping away, "put that handle back right now, or I'll give you the spanking of your life!" He moved as if to get out of his seat.

"Oh, all right," Griff said disappointedly as he moved the handle back, and half-aloud muttered, "spoilsport."

As the ship reduced speed, Bill relaxed and Griff

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released the handle and turned to him. "Well," he said, "how did it go?"

"Just as I thought," Bill breathed, "but you sure had me worried for a minute."

"There was nothing to it," Griff returned modestly. "Now tell us what happened. What's the answer?"

"Yes, Bill, what's been happening?" Eddie joined in.

"We've crashed the light barrier," Bill announced. "As we approach the speed of light, the time element seems to stretch. You're familiar with that effect?" he asked Griff.

"I know of it. Isn't the change so slight as not to be noticeable?"

"At relatively slow speeds, like 160,000 miles per second, it is," Bill agreed, "but the closer we get to the astral speed of light the slower time operates, until at the exact speed of light, 186,284 miles per second, time in effect stands still. Now as far as anyne know, we are the first people actually to surpass this speed and survive. We know the answer now. We how why the movinor XL shind sidaspneared."

"We do?" Eddie asked blankly. All this was too far out of his line for him to comprehend fully.

"Well, obviously what has happened is that as we passed beyond the speed of light, time started running backward for us. Both of you moved back toward your childhood."

"Well, bless my boosters!" Eddie exclaimed in amazement, "but what happened to you? Didn't you get younger with us?"

"No. Not the first time. As a matter of fact, if we had

not crashed through the barrier, I'd be in awful shape right now, because apparently as fast as age was being added to me by the antisuss drug I took accidentally, it was being taken away by the time element. It saved my life."

"Wait till they hear about this back home!" Griff said. "We'll be heroes!"

"Aren't you overlooking a couple of details?" Eddie asked glumly. "Small little things like being absent without leave, swiping a top-secret spaceship and consorting with the enemy? Some herces!"

"I resent that," Criff said in mock indignation. "We didn't exactly swipe the ship. We merely borrowed it, and as for consorting with the enemy, if they didn't steal these ships, and we can prove they didn't, they aren't even the enemy."

"All right, knock it off, fellas," Bill broke up the argument good-naturedly. "Heroes or villains, what's the difference? Our job isn't over until we get Delu back to Earth with us. Griff, do you know the Poseidan wave length?"

You're talking to a communications man, "Griff answered with bia secutomed brances. T can put you on to Headquarters direct." Twirling his dials, and settiag his frequency selectors to the proper microwave, Griff soon had Bill talking with Poseidan Headquarters. His message was being received with considerable suppions on he asked to be cleared directly to Kut. This was a nost unumal request, and the communications clerk at Poseidan Headquarters was deeply puzzled at this message. ing Earth ship. However, the son of Delu was not a personage to be triffed with and, after a momentary hesitation, the connection was made. Bill asked Griff to cut the televiewer in on the conversation and Kutt's image appeared on the screen.

"Hi, Kutt," Bill greeted him. "I'm glad I was able to get through. I'm in an XL model with two of my friends-Eddie is one of them-and I'm approaching Poseida on a course which will bring me in about two hours from now. I need your help urgently."

"Well, of course, Bill, you can count on me." Kutt's voice came through clearly and the puzzlement was accurately registered. "What are you doing coming here? I don't understand."

Bill hastily outlined in a general way the events that had brought him back to Poseida, without mentioning the declaration of war or any of the actual details. He did, however, mention the bare fact that he carried proof that the Poseidans had not been responsible for the tragic disappearance of the XL models. He asked Kutt where the ship could be brought down other than in the regular Earth Colony military strip, and Kutt suggested the beach which they had enjoyed together. A portable landing beam would be dispatched to the site immediately. Kutt assured Bill, and all he would have to do was set his robot landing mechanism to the proper frequencies and the craft would bring itself in. Bill checked this with Griff and was relieved to see his pilot nod his head in agreement. "That sounds good, Kutt," Bill said. "but there's one more thing. We're going to have to take off again right after I talk with you and your father. Can that be arranged right at the beach?"

"It can be handled," Kutt assured him. "We've been faced with worse problems. Just you get here safely and I'll see to it that our engineers have an auxiliary takeoff tower ready for you."

"Thanks. It will be urgent that I see your father right away. Please arrange a meeting if you can. I repeat, it is urgent," Bill concluded.

"I'll do what I can, Bill. Be seeing you." With that Kutt concluded his transmission and Bill turned to his two friends.

"Can you handle the landing robot?" Bill asked Griff.

"It's automatic," Griff replied laconically. "If they set up a landing beam, all we have to do is sit tight and ride her down."

As the trip neared its end, Bill became increasingly andross. The plane was a three-planes operation and the success of all three was required if any good was to come of it. The commandering of the ship and the safe arrival on Possidh was phase one. Now that the interview with Delu, which was the second step, was almost at hand, Bill wondered how the Possidan Leader would receive the proposition of a trip back to Earth.

The televiewer screen suddenly flashed on and Griff closed the circuit activating the robot landing mechanism. He settled back in his seat and said, "Check your belts and relax; we're due to go into landing procedure shortly."

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Eddie and Bill tightened all straps and waited. As a bell sounded, the scats converted into exts and the great ship reversed its direction and pointed its fail to Possida. Its motive energy geared itself to counteracting nearly the guld gravity, and the XL-35 settled gently on Possidian soil. The compariment swiveled to a horizontal position and, as the cost seconverted, a boud chang announced the switching off of the main power unit.

The three hovs unstrapped themselves and stood up briefly straightening out their clothing. Then Griff stood by the hatch release and Eddie stood back to allow Bill to be the first one out. Bill nodded and Griff pulled the lever: the hatch swung open and Bill stepped forward to see that a ramp had been placed in position outside. He walked onto the ramp and paused, allowing his eyes to rove around the scene. He had never seen so many Poseidans, Gathered in formation, they ranged completely around the ship, covering the entire beach and stretching into the ocean. Strange weapons of several different kinds were in evidence, and a quick glance at the mass-energy transmitter showed that its latticework superstructure was in motion. It was obvious that the Poseidans were mobilized and ready.

Kutt was waiting at the bottom of the steep ramp and Bill hurried toward him as Eddie and Criff followed. "Boy, I'm glad *you're* here," Bill said. "I'd hate to face this recervition committee alone."

"Father didn't want to take any chances. Are there just the three of you?"

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"That's all. Kutt, I'd like you to meet Eddic Watkins and this is Griff Hughes. He was the pilot this trip."

"Pleased to meet you, Eddie," Kutt acknowledged the introduction. "Bill spoke of you often. I'm pleased to meet you, coo," he said to Ciff. The two murmured a polite greeting and Kutt turned at once to Bill. "Rather's waiting for you. He asked me to bring you to him at once."

Bill was pleased at the news. "Fine," he said, "we have very little time and we must speak to him right away. Eddie and Griff are with me on this, he'll see the three of us, won't he?"

"Oh, yes. Let's get over there immediately."

They role on open-surface traction vehicles, and Kutt was able to tell Bill in guarded tones that he had told his father all about his talks with Bill and therefore he had no need to hold anything back. This information relieved him greatly; it would save a lot of time.

Delu received them in the Hall of the Universe; he greeted Bill cordially, if a bit coolly, and barely acknowledged the presence of his two companions. Delu then dismissed the others in the chamber and when the three boys were alone with Delu and Kut, Delu spoke. "This is an extraordinary thing you do, comine here like this."

"These are extraordinary times, sir. It was the only thing I could do."

"Are you here under orders?"

"No, sir, you see . . ." Bill's eyes lowered and he looked uncomfortable. "We . . . well, we sort of

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borrowed a ship. General DeVere will no doubt declare us all under arrest, but before you turn us over to him, sir . . ."

"General DcVere and his staff are confined in a section of the Palace as, shall we say, guests of mine. He will not be declaring anyhody under arrest for the time being. Now, young man, if as you say you are not here under orders, what is the purpose of your visiff. This was had news. Delu must know most of what had been happening on Earth, and, if General DcVere had been taken into custody, it would appear that Delu had some Plans of his own aloot.

"Site, as you know," he began, "things have been getting pretty baid and, well..." It he hostisted, not knowing quite where to begin. Suddenly Eddle stepped forward. "General Dely, he said, "I think if you'll read this, you'll understand." He handed Dolt the manascript which Mill hald writen when he had believed he was going to de. Hill looked at Eddle hand believed he was going to de. Hill looked at Eddle though the doemonet at a rapid mean. This going was broken only by the rusting of pages as Delu neath flipped them over one by one.

He came to the end and looked up. "May I inquire how you come to be here, since according to this writing you did not expect to survive the trin?"

Bill explained how the very thing which he had expected would be the end of him had been the key to the survival of the trio and the discovery of the light barrier.

"This is fantastic," Delu murmured. "It's incredible."

"It's incredible, all right." Griff announced loudly, "but it's all true. Right out there on the beach is an XL ship. First once ever to make a successful flight, and I would like to say that I am proud to have been accreded the privilege of being the piket." Bill groaned inwardly. Was there no situation, he wondered, that could dilute Griff shrah enthusiasm?

"I did not intend to imply that there was any lack of truth," Delu said. "I am convinced that your purpose in coming here, gendlemen, was an honest one. Frankly, Bill, once I had determined that you came entirely on your own responsibility, there was no doubt in my mind. But what you ask is impossible."

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R, things that seem impossible normally become not only possible but mandatory when thousands of lives are at stake," pleaded Bill.

Delu chose his words carefully. He liked this young Earthman and recognized the risks the three boys had taken to appear before him, but he could not allow himself to be influenced by personal feelings.

There is nothing I would not do to preserve the life and asifely of even one man, if it wree in my power to do so. But I an charged with protecting the lives and the freedom of my people, and if I wavered in the performance of my duty, I would be placing them in a position of great peril. Although my decision weighs havely on my conscience, I and have no choice but to take such steps as I feel necessary for the protection of my people."

Bill swallowed hard. Time was running out and it could not be wasted in a lengthy debate. He had to convince Delu that the trip back to Earth would not imperil his people but would, instead, be the means of sparing the lives of thousands of them, for, regard-

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less of the outcome of the impending struggle, the slaughter on both sides would be devastating. He marshaled his thoughts, cleared his throat and began, "Don't you see, sir, the surest protection you could give your people is the weapon of truth. If you lead them into a war, even a defensive war, which could be avoided by the realization of the truth, you would be as guilty as Proctor Glussan." He went on to explain that since war was what Glussan obviously wanted, the outbreak of hostilities would be a victory for him. The people of Earth were as anyious to preserve the peace as were the Poseidans. Only a handful of men were fomenting this turmoil by hiding truth beneath a barrage of misleading words. To attempt to settle the differences by force of arms would prove nothing, but would merely bury the truth still deeper. Bill did not ask Delu to disband his forces but to hold them in abevance while he went to the World Concourse and spoke out for peace. If things did not work out well, then, of course, he would have lost nothing, but at least he would have held nothing back and he could not feel responsible for the carpage to follow. No matter what occurred later. Bill assured him, his appearance there and his speech would show Glussan up for what he really was, and real neace founded on truth would settle again on the universe

Bill finished talking and waited. Delu had listened intently throughout the discourse but it was impossible to tell whether he was being influenced by what was said. Delu waited a minute in agonizing A Verdict of Treason

silence and then spoke in a low voice, as if thinking aloud. "I could, as you put it, show Proctor Glussan up for what he really is. I could show him up more than you realize."

"I have no doubt of it, sir," Bill answered sincerely.

"You may like to know," Delu continued, "that a few hours ago, a disgraceful plot was uncovered which involved Proctor Glussan and, I am sorry to say, several of my own people. It seems that the sly Proctor has been smuggling rhyllium from this planet back to Earth in heavy quantity."

"I don't understand, sir," Bill said in surprise. "The possession of rhyllium is strictly controlled back home. Its existence must be immediately declared and the Government buys it at once. No individual may retain rhyllium. And yet I happen to know that the Government stockpile has not been swollen by the receipt of shipments other than the normal amounts."

"Exactly!" Delu replied emphatically. "Protor Glussan has been building his own private stockpile against the time that your people will be so desperate that his hoard will buy him anything he desires, which will turn out to be, I'm afraid, control of the entire planet."

"No kidding!" Griff exclaimed indignantly. "Well, that clinches it!"

"There's no doubt about it, General," Eddie joined in. "Once you tell them that, he's through."

"Hmm," Dclu mused, "I'm not so sure. He's a crafty one."

'You can't hold back now, sir," Bill pleaded. He

saw Delu was wavering and he pressed his advantage. "When you show them how Glussan has been doublecrossing his own people and then point out how the ships were destroyed by passing through the light barrier, there isn't a chance of failure."

"When you are dealing with a person like Proctor Glussan and two such complex peoples as yours and mine are involved, failure lurks at every move," Delu cautioned. He turned to Griff. "Do you believe that your ship can safely make the journey back to Earth?"

"If it doesn't, I'll carry you the rest of the way on my back," the messenger replied with conviction and, in spite of himself, Bill grinned.

"Lieutenant Watkins," Delu turned to Eddie, "as an expert on affairs of the military, what would you say our chances of arriving safely would be? Will we be blasted from the skies as we approach your planet?" Eddle shifted uncomfortably. Delu was joshing him, he knew, but he had to give an answer.

"Well, General," he replied, "it seems to me that if the only XL ship ever to have survived a flight were returning to its base, I would not destroy it. I would be most anxious, in fact, to assure its safe landing."

"In any case," Bill broke in, "we would establish communication with the base and inform them of our arrival."

"If I should decide to go," Delu resumed, "how soon could you be ready?"

"Why, we're ready right now, sir," Bill answered enthusiastically. "We could leave at once. And I believe we should."

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"All right, then, I agree. First of all I shall have to have a travel cabin placed aboard; I will take Kutt and three attendants. We'll wear water-filled landsuits, of course, but I would like to take the cabin also. Can that be arranged?"

"The hold of the XL can take something half the size of this room," Griff exaggerated, "so bave your people bring the cabin out on a hoist and we'll place it aboard."

"I'll be ready within the hour," Delu announced, bringing the conference to a close. "You can get everything in readiness meanwhile."

As Bill thanked him and turned to leave, Kutt came up and said, "Phew, I never thought you'd be able to talk him into it. I'm kind of scared, but I'm real happy."

"I am too," Bill smiled. "Thanks for your help. We'll see you at the ship."

The three boys returned to the XL-35 and fell to work with a will. A self-popelled holis tarrived with the Poseidan travel cahin and an auxiliary takeoff tower was wheeled into place. Griff want over the control panels with infinite care while Bill and Eddle directed the loading of the hold and the fitting of connections to the tower. They had just completed their work when Dola urried with KL and here asked which allowed them to move about with almost normal action but which kept them immersed in a special water-base solution. Their voices came through clearly such the three poys waved a greeting from the hatchway. "Are you ready for the blastoff?" Delu asked, coming to the top of the ramp.

"All ready, sir," Bill assured him, standing aside to let him come through. The travel cabin had been anchored in the hold, and an extension asile had been brought out and joined to the door leading into the main compartment. Delu loaded around briefly and said, "Looks efficient. We'll go into our cabin for the blastoff and well Join you latter."

"Fine, sir," Bill remarked. "We have a communications line rigged up so you can keep in touch with us at all times."

With that the five Poseidans scrambled through the door and sottled in their cabin. Eddle closed the passageway and then swong the main latter to. The boys elimbed into their seats and tightened the straps. Griff checked his instruments and turned to Eddle and Bill. "All set?" he inquired.

"Hold it a minute," Bill said. "Can you put me on to Delu over the intercom?" Griff flipped a switch. "Sir," Bill called out.

"Yes, Bill, what is it?" Delu's voice filled the compartment.

"I was just wondering, sir, do you think we should contact Earth and tell them we are coming?"

"No. I'd rather put that off until after we are spaceborne; let's not give them too much time to think. Get us started and I'll be in to see you."

"Right, sir," Bill called; and then to Griff, "Let's jump."

The televiewer showed the ground around them

had been cleared of all Poseidans. Griff completed a last-ecord heek and, grasping the main energizer switch, he asked for a countdown. As Bill sounded the seconds, the hooys involutarially braced themselves, their muscles tuned to the energy surging through the sinp. Then the triumphant ery of ²Missile away? came from three throats and the trip to Earth was begun.

Bill watched Poseida reading swiftly on the screen and was amazed to see it reduce to the size of Earth's first he thought somehing had gone wrong with the receiver, till he remembered that Poseida's ionosphere did not allow reflecting light rays to penetrate, so a soon as the carf had passed through the eavedoping layer, the planet's very existence could not be detected.

As soon as they were truly spaceborne, Griff amoneed the fact and Eddle got down from his seat, relying on his magnetic solet to maintain his equilibrium. He capened the done leading into the hold and the hoys waited. Deln und Kutt soon appeared, the aidea remaining in the cabins. Bill noted that the spacenitis the Precidans were warring had tight cuffs which aldwort the tips of their long arms to emerge. This made handling things easy as well as providing a way to anchor themselves to any surface by means of their suction pads. Griff made certain their speed was enternely interested in the numerous dials and instruments. At about the halfway point, Delu asked Griff to establish contact with Headquarters on Earth. The three hoys winced. This was the part which they had not been looking forward to. Bill felt that regardless of how Delu was received, the three of them were in for a rough time.

At Delu's instructions, the televiewer screen was not activated and they could hear the call being switched to Military Headquarters. There was a pause before the voice of General Watkins came on. There was controlled fury in his speech. "Identify yourself at once," he said. Griff gulped and said, "This is Griff Hughes, Courter Service, Messenger, si."

"Are you in the XL-35?" the loudspeaker boomed. "Yes, sir."

"Who's the pilot?"

"I am, sir," Griff answered, sounding very unhappy about it for once.

"What!"

"Yes, sir."

"Is Edward with you?" the general asked.

"I'm here, Dad," Eddie called out.

"Are you a prisoner, son? Did they kidnap you?" "No. Dad. I was responsible for taking the ship."

"You were!" Spluttering sounds came through the loudspeaker as General Watkins strove to control his fury, and Eddie thought this was a good time to change the subject. "We have a passenger, Dad. Delu is on board. He would ikke to talk to you."

"Delu!" The general's voice echoed his amazement. "Good day, General, this is Delu of Poseida. I am

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talking to you from the XL-35 now operating in the service of Planet Earth Forces. I request permission to land at the Headquarters Experimental Spacestrip."

The general's voice softened and a note of respect sounded. "Debu Fibi is a pleasure, Im sure, Bu IT afraid 1 don't understand, sir. The XL-35 is not in the service of Planet Earth Forces at this time. The situation here is very confused. I have been trying to contact General DeVere and so far I have not been able to get through. "There was a pause and the general continued hesitantly, "... Er, Delu, do you come in pace?"

"Of course, General. I expect my arrival to be peaceful. Why do you ask?"

"Well . . ." General Watkins was embarrassed by the question. "As I say, the situation is very confused ... and ... er ..."

"I understand the situation perfectly, General," Delu continued smoothly. "I presume that the Staff Chiefs are with you and are listening to our conversation?"

"As a matter of fact, they are."

"Goad. Then 1 want you all to listen. I come in peace to address the World Gaccourse. As proof of you intentions 1 traing with me my son Kutt, and I appect to be received with full protocol and taken at once to the Concourse where I will spack. Is that agreeable?" The speaker went dead and there was a hurried conference at Millitary Headquarters, then there was a click and the general answered, "It is agreed, Delu. We when by owleane you, and we hereby invite you to address a full meeting of the World Concourse immediately upon your arrival."

"Thank you," Delu said, "and one thing more, General. Inasmonk as yon have so contailly extended me an invitation, I am sure you will not construe if as a threat when I tell you that my safe conduct is guaranteed by Poseidan Military Forces. I meredy mention it to make it clear that, although my life may be sacrificed, total and immediate destruction of your planet will be the result."

"Of course, Delu, although I'm not sure I follow ..." "I think we understand each other, General," Delu answered simply. "Now there will be no further communications from this craft until we land. You will arrange for the robot landing beam?"

"It will be taken care of," the general replied.

"Cook 1 sign off." Delu motioned to Griff to cut the transmitter. He sopke to the boys. T think it has gone very well to far. You have a good man for a father, Edward. I hope the Concourse will hear me out. Now, I shall return to my cabia and prepare my speech. Let me know when we can the your stratophase." Ho turned and went through the door. Kut followed ihm, but has before passing through he down the sails.

When they arrived within range, Griff activated the robot landing mechanism and notified Delu. Eddie closed the connecting door and the landing was effected in a routine manner. The main power unit

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switched off and the boys jumped from their spats. They opened the door to the hold and Dela came through, followed by Kutt and the aides. The compartment was quite erowhed, but the Poseidams would be the first once off. The aidet took up their position right at the main hatchway with Kutt behind them and Dela at the rear. When all were in position, faill nodded and Griff, standing to one side, pressed the button, opening the big hatch.

The aides moved out and, when they were halfway down the range, Kuit followed. Delup haused a moment and started through the door. As soon as he made his appearance, a military hand brokes into an anthem of greeting while the massed honor guards snapped to attention, Peeding surreptitiously through the orack by the hings of the open door, Eddie could see his father waiting to prete bleh. High oldices were present and they saluted Delu and led him on a short review of the guard. The party of General Olfices and Zosiethans then boarded vehicles for a fast trip to the Concourse Building.

As soon as they had disappeared, a group of space police run up the rung and entreff the XI-48. The officer in charge of the squad asked each hoy to identify himself and them aid, "On an each of you under arrest, charged as heing guilty of maximum theorized operation of security equipment in time of perif, being absect without leave and various lesses charges which will be made known to you later." The boxy submitted medky and they were exorded out

of the great craft and herded onto a police vehicle which took them to the military stockade. There they were placed in the maximum-security wing in which they were the only occupants. It was evident that the officer in whose charge they were regarded them with utmost contempt; when they were locked in the compound he gave them a dressing down, his voice dripping with scorn. "If it were up to me," he concluded, "you would be executed out of hand. You," he indicated Bill, "having wormed your way into General Watkins' confidence, used his kindness against him. And you," he turned to Griff, "a messenger who was given a position of trust, took advantage of that trust to sell out your people. As for you," he looked at Eddie with loathing, "there is nothing I can say to express my hatred of a fellow officer who betrays his oath.

"A lot you know," Griff spoke up boldly. "We didn't betray nothin' to nobody."

"Hal" snorted the officer. "Well, at least we know what's been happening to the XL's. What made you bring this one back? Did Delu put you up to it?"

"You mean you think we have been taking the XL's?" Eddie asked in dismay.

"You or your Poseidan masters," the officer snarled. "What's the difference?"

"Now look here," Bill said, losing his patience, "aren't you sort of putting the cart before the horse? You are doing your duty by keeping us in custody, but what right have you to assume we are guilty of anything before we are tried? I am sure that when

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all the facts are brought out at our trial, the only charges which will stand up will be the minor ones for which we are quite ready to answer."

"You traitors have had your trial," the officer returned. "You have all been found guilty and sentenced to be executed."

"We've had no trial," Bill answered angrily. "What do you mean we've been found guilty and been sentenced?"

"You were tried in absentia and found guilty. Your father tried to delay the trial arguing that he thought you might have been forced along." the officer said to Eddie, "When the Sentrac tapes indicated that you had introduced your co-conspirator to the area, he was voted down and the court-martial was held. It is perfectly legal to pass judgment on traitors who have fled beyond the jurisdiction of homeland. We never thought we would be able to carry out the sentence, but you played right into our hands, and it will be my pleasure to take you to the execution chamber in about four hours. If you take my advice, you will spend your remaining time writing a full confession as a warning to others." The boys looked at him, speechless with horror; he surveyed their dismay with satisfaction and then turned on his heel and marched swiftly out of the compound.

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me nors looked at each other in consternation. "Can they really do that?" Griff asked.

"I don't know much about law," Bill said, "but it certainly seems unfair to me."

"Military justice can be an awful thing," Eddle said. "Ive had to study the procedure of courtsmatrial and, although I don't remember much about it, I know I was surprised how differently they operated from civilian courts. But this in absentia business takes the cake."

"How can they say we're guilty of anything until they speak to us personally?" Griff asked, his voice rising almost to a wail.

"I've heard of something of the sort," Bill said, "and the idea was that you triod the person if you couldn't get hold of him. This was so that if you ever did locate him, you could extradite on the grounds that he was a eriminal. I always assumed that if they did catch up with a guy, they'd sort of try him over again."

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"Do you really think they're going to clobber us?" Griff asked Eddie.

"Who knows?" Eddie answered with a shrug. "In any case it won't do any good to worry about it. I wonder how Delu is making out."

"Hahl" Griff snorted. "If I know them, they've probably arrested him and cut him to pieces."

"They wouldn't do that," Eddie said in a shocked tone, "would they, Bill?"

"No, I don't think they'll do him any harm. After all, he was invited to speak, and they'll listen."

"Yeah, they'll listen to have a line" Griff agreed disgustedly, "and you know why? Because he told them that stuff about Poseidan Military Forces. If we told them, 'now you listen to us or we'll destroy all of you,' they'd listen you can bet."

Bill forced a smile. "Why didn't you tell the officer of the guard that?" he asked.

"Aw, I mean, if they thought we really could. In Delu's case, they aren't sure whether he can or not."

"I know what you mean," Bill replied, "but it won't do any good to be bitter. We took on a job and we're stuck with the consequences. If our plan works and Delu is able to persuade them to avoid bloodshed, whatever happens to us doesn't matter too much."

"I suppose not," Griff admitted grudgingly.

The next few hours the boys tried to avoid the subject of their impending doom. They chatted among themselves, discussing every topic they could think of, from the possibility of the antisuss drug being developed as a specific for travel at extreme

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speeds to the conjecture as to how soon travel outside Earth's inviewer would become feasible. They were lying on the hard bunks fastened to one wall, looking up at the ceiling or closing their eyes as they talked, when foottsper ang through the long hail leading to their compound. The hollow, echoing sounds became louder, and as one the tris oparing to their feaand runked to the bars, pressing against the steel as they tried to see who was approaching.

A sergeant of the guard came into view and stopped outside their enclosure. "Watkins, Hughes and Hudson, come with me," he said shortly as he unlocked the barred door and held it open.

The boys glaraced apprehensively at each other before Bill stepped forward and led the way. They followed the sergeant down the hall and turned into the provot marrial's diffec. The office was large; it had benches along two of its walls, and at the far end a long, broad desk overfooked the entire rooms of the area behind the desk, a group of staff officers was gathward, as bounded at the dask itself was enged way. A submitted at the dask itself was stored at attention, fassing the general. Thave been instructed by the World Concourse to inform you that a resolution has just been pased expressing recognition of your accompliahment, the said.

There was silence while he paused and it was broken by Griff. "Well, that's real nice, General. I suppose they'll send flowers to the funeral." Bill moved his fingers over and surreptitiously tugged at the messenger's trousers, trying to pass along the hint to keep his mouth shut. The general's eyes crinkled at the corners but his face remained solemu; he cleared his throat. Thrm, "he said. 'I see what you mean, but I wonder if any of you realizes put what you did. Overhooding the major of enses, any one of which would be sufficient to warrant summary exceution, you collectively committed breaches of military law, civil law and various transgressions against the Communications etc, the penalties for which ad ou I believe, to approximately a thousand years at hard labor. None of you denies responsibility. It the sife"

"No, sir," Eddie answered. "None of us."

"Good. There are channels of procedure all carefully laid out for action in the public interest and I strongly recommend that you confine your activities to these channels in the future. However, in this particular case, we have just heard a truly remarkable speech by Delu which seems to point to extenuating circumstances. As a result a special Act was voted declaring your sentence void and negating the charges against you." He stood up and came around the desk. "Bill," he said, shaking the boy's hand. "I can only say that I wish I could have had a part in it. I'll talk to you later; you're going to have dinner with us tonight." He moved along to Griff and grasped his hand. "Young man, I congratulate you. Your extraordinary if somewhat reckless courage was vital to the success of the undertaking. You will dine with us?" Griff nodded eagerly, "Good. I have a feeling that you'll be hearing from Experimental Pilot and Navigation Training Command. They'll have a special job for you."

Griff lowered his eyes modestly. "I'll be glad to give them whatever help I can," he murmured.

General Watkins stood in front of his son and extended his hand. Eddle took it and they stood silent for a moment. The general's eyes were moist as he pressed Eddle's hand. "Son, I'm proud of you," he said huskily. Then he returned to the desk and busied himself gathering up the papers as the Staff Chefris approached the boys and, introducing themselves to each had in turn, offered their personal comparatulations.

The general and his staff headed for the exit, but he paused at the door and said. "Don't forget, my place for dimen. Six o'clock I have to be getting back to Headquarters but there's someone heen waiting to see you. Il seat him in "He dispreased with his staff and Kutt came into the room. The boys crowded around him excitedly, asking questions and he laughed as he said, "Hold on. There's so much to tell I couldn't possible vaphine everything that happened."

"Couldn't you just give us the highlights?" Griff asked.

"Ed, your father invited me to stay at his place for a few days. Father is returning home at once but he gave me permission, so I'll be able to tell you everything that went on when we're together."

"What about Proctor Glussan?" Bill persisted.

"Oh, he's arrested and stripped of his office. He

won't cause any trouble ever again. It was amusing to see how, once he'd been exposed, his supporters scrambled all over themselves to be the first to denounce him and swear that they had never trusted him."

"That's the best news I've ever heard," Bill said, smiling broadly. "Then everything turned out all right?"

"Everything," Kutt answerd. "Father was it ugent style. He even told them all about the maximum year transmitter and promised to share its secret now that we are to work as a team. And he proposed a joint venture to coptone the outer racehest and investigate the near galaxies. They went wild; boy, I with you could have seen 1. If 11 oil you all about it this evening, but I have to run along now. I have to see Father off at the sencestrin."

"Hey, wait a minute," Eddie pleaded. "Did Dad make a speech? Did he say anything?"

"Yes," Griff joined in. "What about when your old ma... I mean Delu told about Glussan and his rhyllium, what did they do? Did they jump right up and ..."

"Fellows, fellows," Kutt laughed. "I'll miss the ceremonies at the strip, if I don't leave, and Father is a stickler for protocol, you know. I'll just tell you about a couple of things I heard and the rest will really have to wait."

"That sounds fair enough," Bill smiled. "What's the news?"

"Well, to begin with, Major Keller put in a bid for

your services. He says your place is on Poseida; that you should continue your studies in the lab there, so you're going to be offered a post if you want it."

"Do I!" Bill exclaimed. "I'd take it at half pay."

"You're part of this, too, Ed. Father mentioned the need for intelligent young liaison officers and he expressed a wish to have you stationed on Poseida to handle liaison work. Subject to your approval, of course."

"I approve," Eddie returned gaily. "I most heartily and emphatically approve. Boy, oh, boy, do I approve."

Now that the tension was wearing off and the boys faced a carefree future where they could pursue their individual callings normally, the solemnity and apprehension of the past several days gave way to good humor and boisterous high spirits. "And Griff," Kutt went on, "General Watkins was talking to Colonel Cummins of the Experimental Pilot and..."

"Yes, I know," Griff interrupted him. "I'm to take charge of the Pilot and Navigation Command."

"Take charge?" Bill and Eddie shouted in mock indignation. "That ain't the way we heard it! They tussled with the young messenger and pummeled him until he squealed for mercy. "All right, fellas, all right," he gasped, "so II] push a broom. What's the dif. TII still be in the nilot end of thins."

Kutt put an end to the caper by insisting on leaving. Griff asked if he could go along. He was about to hint that he would be useful in case anything went wrong with the blastoff and they needed expert advice, but he caught the eyes of Bill and Eddie focusing on him in pretended ferocity and changed his mind. "I love the excitement of the blastoff," he ended.

"Sure, come on," Kutt said, "but we'll have to hurry. So long, fellows, see you in a little while." Bill and Eddie waved good-by and watched them leave.

When they were alone, Bill turned to his friend and said, "Boy, that was some meal! I've never had a dinner which affected me so much."

"What meal?" Eddie asked, surprised.

"Dinner at your house last Christmas, don't you remember?" Bill replied. "That's what started this whole business. I've had indigestion ever since."

The boys laughed until tears streamed from their eyes. When they regained control, they started at a brisk pace for General Watkins' quarters. They were going to have another meal together.